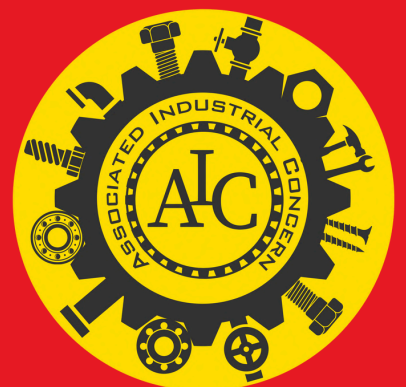




**AT THE
ROOT_{OF}
INDUSTRY**



ABOUT US

Established in
1981

Associated Industrial Concern is a professionally managed company, started business in 1981 with a motto to serve its customers with best quality products, Prompt and efficient industrial services in the field of Hoses and Polymers.

We have always marketed and supplied products which are the best available in the market with best services and quality, which are our at most priority.

BRANDS WE DEAL



AEROFLEX
INDUSTRIES LIMITED



FlexOn
Flexible Hoses of 21st Century....



RADCOFLEX

KLIPCO®

SPITMAAN



DOZZ

VIDYUT SAFE®

APPLICATIONS



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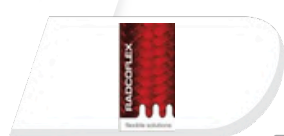
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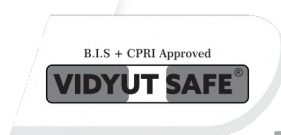
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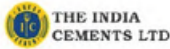


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OUR OEM's*/ CLIENTELE INCLUDE

*Few OEM'S suppliers are Indirectly through our Manufacturer / Dealers



SAE 100 R1 AT

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight	 Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
6.00	1/4	13.40	225	3263	900	13050	100	3.90	0.25	100 +
8.00	5/16	15.00	215	3118	860	12470	115	4.50	0.27	100+
10.00	3/8	17.40	180	2610	720	10440	127	5	0.34	100 +
12.00	1/2	20.50	160	2320	640	9280	178	7.00	0.455	100+
16.00	5/8	23.70	130	1885	520	7540	200	7.90	0.550	100 +
20.00	3/4	27.70	105	1523	420	6090	241	9.50	0.675	100+
25.00	1	28.50	88	1276	352	5104	300	11.80	1.025	100
31.00	1.1/4	35.60	63	914	252	3654	420	16.50	1.250	50
38.00	1.1/2	50.40	50	725	200	2900	500	19.7	1.45	40
50.00	2	63.50	40	580	160	2320	635	25	2	40

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Single braided high tensile steel wire

COVER:- Wrap & Smooth:

Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

For medium to high pressure Hydraulic Lines applied in various applications like earthmoving and other industries

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R1 AT/DIN EN853 1SN

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R1 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R2 AT

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight	 Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
6.00	1/4	15.00	400	5800	1600	23200	100	3.90	0.35	100 +
8.00	5/16	16.00	350	5075	1400	20300	115	4.50	0.40	100 +
10.00	3/8	19.00	330	4785	1320	19140	127	5	0.5	100 +
12.00	1/2	22.00	275	3988	1100	15950	178	7.00	0.65	100 +
16.00	5/8	25.00	250	3625	1000	14500	200	7.90	0.80	100 +
20.00	3/4	29.40	215	3118	860	12470	241	9.50	0.94	100 +
25.00	1	37.60	165	2393	660	9570	300	11.80	1.36	100
31.00	1.1/4	48.30	125	1813	500	7250	420	16.50	1.90	50
38.00	1.1/2	54.70	90	1305	360	5220	500	19.7	2.3	50
50.00	2	67.50	80	1160	320	4640	635	25	2.95	40

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Double braided high tensile steel wire

COVER: Wrap and Smooth

Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

For high pressure Hydraulic Lines applied in various applications like earthmoving and other industries

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R2 AT/DIN EN853 2SN

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R2 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R6

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight	 Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
6.00	1/4	12.70	35	508	140	2030	51	2.00	0.13	100+
8.00	5/16	14.30	28	406	112	1624	64	2.50	0.15	100+
10.00	3/8	16.00	28	406	112	1624	76	3	0.18	100+
12.00	1/2	19.80	28	406	112	1624	76	3.00	0.23	100+
16.00	5/8	23.10	24	348	112	1624	101	4.00	0.32	100+
20.00	3/4	26.60	21	305	96	1392	127	5.00	0.43	100+
25.00	1	32.50	15	210	84	1218	152	6.00	0.50	100

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Single braide high tensile yarn

COVER:

Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

For low pressure Hydraulic Lines applied in various applications like earthmoving and other adjacent industries

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R6/DIN EN854

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R6 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R3

 ID		 OD		 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight		 Max. Length	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR			
6.00	1/4	14.30	87	1250	348	5046	76	3.00	0.16	100+			
8.00	5/16	17.50	84	1218	336	4872	101	4.00	0.24	100+			
10.00	3/8	19.10	78	1131	312	4524	101	4	0.28	100+			
12.00	1/2	23.50	70	1015	280	4060	127	5.00	0.38	100+			
16.00	5/8	27.00	61	885	244	3538	140	5.50	0.45	100+			
20.00	3/4	31.80	52	754	208	3016	152	6.00	0.63	100+			
25.00	1	38.00	39	566	156	2250	303	8.00	0.75	100			
31.00	1.1/4	44.50	26	377	104	1500	254	10.00	0.97	50			
38.00	1.1/2	51.00	17	247	68	986	305	12	1.23	50			
50.00	2	-	15	218	60	870	409	16.1	-	40			

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Double braided high tensile yarn

COVER:

Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

For medium pressure Hydraulic Lines applied in various applications like earthmoving and other adjacent industries

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R3/DIN EN854

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R3 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R5 R

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
4.80	3/16	13.20	210	3045	840	12180	76	3.00
6.40	1/4	14.80	210	3045	840	12180	86	3.40
7.90	5/16	17.20	157	2277	628	9106	101	4.00
10.30	13/32	19.50	140	2030	560	8120	117	4.60
12.70	1/2	23.40	122	1769	488	7076	140	5.50
15.90	5/8	27.40	105	1522	420	6090	165	6.50
22.20	7/8	31.40	56	812	224	3248	188	7.40
28.90	1.1/8	38.10	43	624	172	2494	229	9.00
34.90	1.3/8	44.50	35	508	140	2030	267	10.50
46.00	1.12/16	58.90	24	348	96	1392	338	13.3

TUBE:

Black, Oil Resistant NBR Tube

REINFORCEMENT:

Single braided high tensile steel wire over one braid of yarn.

COVER:

Oil Resistant Rubber Impregnated Cover

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

For medium pressure Oil Lubrication system in railway diesel engine

PROPERTIES:

Medium Temperature
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

SAE 100 R5 R

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R5 R I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R5 C

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
4.80	3/16	13.20	210	3045	840	12180	76	3.00
6.40	1/4	14.80	210	3045	840	12180	86	3.40
7.90	5/16	17.20	157	2277	628	9106	101	4.00
10.30	13/32	19.50	140	2030	560	8120	117	4.60
12.70	1/2	23.40	122	1769	488	7076	140	5.50
15.90	5/8	27.40	105	1522	420	6090	165	6.50
22.20	7/8	31.40	56	812	224	3248	188	7.40
28.90	1.1/8	38.10	43	624	172	2494	229	9.00
34.90	1.3/8	44.50	35	508	140	2030	267	10.50
46.00	1.12/16	58.90	24	348	96	1392	338	13.3

TUBE:

Black, Oil Resistant NBR Tube

REINFORCEMENT:

Single braided high tensile steel wire over one braid of yarn.

COVER:

Cotton Yarn Braided Cover

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

For medium pressure Oil Lubrication system in railway diesel engine

PROPERTIES:

Medium Temperature
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

SAE 100 R5 C

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R5 C I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SUPER JACK HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
6.4	1/4	14.8	690	10005	1380	20010	102	4.0
9.5	3/8	18.8	690	10005	1380	20010	127	5.0

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Double braided high tensile steel wire

COVER:

Wrap & Smooth Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

For constant high pressure applications like Hydraulic Jacks

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SUPER JACK HOSE I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

R 16 COMPACT

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
6.4	1/4	12.5	225	3263	900	13050	51	2.0
7.9	5/16	13.5	215	3118	860	12470	58	2.3
9.5	3/8	15.5	180	2610	720	10440	64	2.5
12.7	1/2	18.5	160	2320	640	9280	89	3.5
15.9	5/8	22.0	130	1885	520	7540	101	4.0
19.1	3/4	25.7	105	1523	420	6090	122	4.8
25.4	1	33.8	86	1276	352	5104	152	6.0

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Double braided high tensile steel wire

COVER:

Wrap & Smooth Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

Petroleum based hydraulic fluids and lubricating oils

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R16

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R16 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

TUFFLEX 3000 R17

 ID		 OD	 Working Pressure		 Bursting Pressure	
mm	Inch	mm	BAR	PSI	BAR	PSI
6.4	1/4	13	210	3050	840	12200
8.0	5/16	14.8	210	3050	840	12200
9.6	3/8	16.9	210	3050	840	12200
12.7	1/2	20.2	210	3050	840	12200
15.9	5/8	23.8	210	3050	840	12200
19.1	3/4	27.9	210	3050	840	12200
25.4	1	35.5	210	3050	840	12200

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Single or Double braided high tensile steel wire

COVER:

Wrap & Smooth Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

Petroleum based hydraulic fluids and lubricating oils with extra flexible routing

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R17

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R17 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

EN 856 4SP

 ID		 ROD		 OD		 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight		 Max. Length	
mm	Inch	mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR			
12	1/2	20.3	0.80	24.2	415	6010	1660	24070	230	9.06	0.89	60			
16	5/8	23.8	0.94	27.6	350	5070	1400	20300	250	9.84	1.11	60			
19	3/4	28.2	1.11	31.7	350	5070	1400	20300	300	11.81	1.59	60			
25	1	35	1.38	39	280	4060	1120	16240	340	13.39	2.02	60			

TUBE:

Oil resistant synthetic rubber

REINFORCEMENT:

Four to Six high tensile steel spirals

COVER:- Wrap & Smooth:

Synthetic rubber with high abrasion, ozone and weather resistance, fire resistant with MSHA approval

TEMP RANGE:

-40 degree C to + 100 degree C approx

APPLICATIONS:

Very high pressure applications used for petroleum based hydraulic fluids

PROPERTIES:

Highly flexible
500,000+ impulse cycles

APPLICABLE STANDARDS:

EN 856 4SP - ISO 3862-1 4SP - MT/T98 4SP

MARKING ON THE HOSE:

Indo-Maksson - 4SP EN856/ ISO3862 I.D W.P
MSHA



Specification Subject to change due to Improvement in Quality [E&O.E].
In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

EN 856 4SH

 ID		 ROD		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight	 Max. Length
mm	Inch	mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
20	3/4	28.2	1.11	31.9	420	6090	1680	24360	280	11.02	1.55	60
25	1	35.1	1.38	38.1	380	5510	1520	22040	340	13.39	2.00	60
31	1.1/4	42.2	1.66	45	325	4714	1300	18855	460	18.11	2.46	60
38	1.1/2	49.1	1.93	53.1	290	4205	1160	16820	560	22.05	3.36	60
51	2	63.5	2.50	67.5	250	3650	1000	15600	700	27.56	4.98	60

TUBE:

Oil resistant synthetic rubber

REINFORCEMENT:

Four high tensile steel spirals

COVER: Wrap and Smooth

Synthetic rubber with high abrasion, ozone and weather resistance, fire resistant with MSHA approval

TEMP RANGE:

-40 degree C to + 100 degree C approx

APPLICATIONS:

Very high pressure applications used for petroleum based hydraulic fluids

PROPERTIES:

Highly flexible
500,000+ impulse cycles

APPLICABLE STANDARDS:

EN 856 4SH - ISO 3862-1 4SH - MT/T98 4SH

MARKING ON THE HOSE:

Indo-Maksson - 4SH EN856/ ISO3862 I.D W.P
MSHA



Specification Subject to change due to Improvement in Quality (E&O.E).
In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAE 100 R15

 ID		 ROD		 OD		 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight		 Max. Length	
mm	Inch	mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR			
20	3/4	28.2	1.11	32	420	6090	1680	24360	265	10.43	1.65	60			
25	1	35.1	1.38	38.4	420	6090	1680	24360	330	12.99	2.29	60			
31	1.1/4	46.3	1.82	49.3	420	6090	1680	24360	445	17.52	3.97	60			
38	1.1/2	53.7	2.11	57.3	420	6090	1680	24360	530	20.87	4.72	60			

TUBE:

Oil resistant synthetic rubber

REINFORCEMENT:

Four to Six high tensile steel spirals

COVER:- Wrap & Smooth:

Synthetic rubber with high abrasion, ozone and weather resistance, fire resistant with MSHA approval

TEMP RANGE:

-40 degree C to + 121 degree C approx

APPLICATIONS:

Designed specifically to handle severe high-pressure applications where constant hydrostatic loads are present.

PROPERTIES:

Highly flexible
500,000+ impulse cycles

APPLICABLE STANDARDS:

SAE 100 R15 - ISO 3862 R15

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R15 I.D W.P
MSHA



Specification Subject to change due to Improvement in Quality (E&O.E).
In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SEWER CLEANING HOSE

									
ID		OD		Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	
19	3/4	29.4	280	4000	830	12000	300	11.8	
25	1	37.6	280	4000	830	12000	400	15.7	

TUBE:

Black Colour, Synthetic Rubber

REINFORCEMENT:

Double High Tensile Steel Wire Braid

COVER:- Wrap & Smooth:

Black Colour, tough cover highly resistant to abrasion. Available in wrap and smooth finish

TEMP RANGE:

-30°C to + 110°C approx

APPLICATIONS:

Specially designed for high pressure sewer cleaning application.

PROPERTIES:

Tough Cover
High Pressure
Smooth Finish

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

MARKING ON THE HOSE:

Indo-Maksson – HYDRO – Sewer
Cleaning Hose 4K I.D W.P Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

VERY HIGH PRESSURE (TRIPLE BRAIDED)

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
12.00	1/2	25.20	470	6815	1880	2726	160	6.30
16.00	5/8	27.70	400	5800	1600	23200	216	8.50
20.00	3/4	32.50	355	5148	1420	20590	162	10.3
25.00	1	40.50	310	4495	1240	17980	318	12.50
31.00	1.1/4	46.50	244	3480	970	14065	409	16.10

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT :

Triple braided high tensile steel wire

COVER :

Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE :

-40C to +100C (+120C intermittent)

APPLICATIONS :

For very high pressure applications as Hydraulic Lines in the earthmoving industry

PROPERTIES :

Very High Pressure Uniform Thickness Flexible

STANDARD COLOUR :

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Very High Pressure Hose
I.D. W.P. Made in India



LPG HOSE - IS 9573 - TYPE 2

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
9.5	3/8	16.9	25	363	100	1450	95	3.7
12.7	1/2	20.8	25	363	100	1450	120	4.7
15.9	5/8	23.5	25	363	100	1450	152	6.0
19.1	3/4	26.5	25	363	100	1450	152	6.0

TUBE:

Black, Low permeation oil and fuel resistant synthetic rubber (NBR)

REINFORCEMENT:

Single braided high tensile steel wire

COVER:

Orange, oil, abrasion and weather resistant synthetic rubber

TEMP RANGE:

-40°C to +70°C

APPLICATIONS:

For Use in domestic and commercial LPG installations

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

IS : 9573:2012

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - IS : 9573:2012 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

CNG HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
7.90*	5/16	14.50	3.4	50	17.2	250	76	3.00
9.50	3/8	16.00	3.4	50	17.2	250	76	3.00
12.70	1/2	20.00	2.4	35	12	175	101	4.00
19.10	3/4	29.00	2.4	35	12	175	152	6.00
25.10	1	35.00	2.4	35	12	175	178	7.00

*ARAI Approved

TUBE:

Low permeation synthetic rubber

REINFORCEMENT:

Single braided high tensile yarn

COVER:

Perforated synthetic rubber cover.

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

For use in motor vehicles with CNG Installations

PROPERTIES:

Resistant to methane & other alkanes
Uniform Thickness
Flexible

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - CNG Hose I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

AIR BRAKE HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR
9.5	3/8	19.05	10	145	60	870	90	3.5	0.377
12.7	1/2	22.2	10	145	60	870	100	3.9	0.486

TUBE:

Black Colour, Synthetic Rubber Tube

REINFORCEMENT:

Textile Reinforcement

COVER: Wrap and Smooth

Black colour, synthetic rubber resistant to oil, ozone

TEMP RANGE:

-40°C to + 100°C approx

APPLICATIONS:

Automotive air brake system; Tractor – trailer air brake connections

PROPERTIES:

Long Length Available
Light Weight
Consistent

APPLICABLE STANDARDS:

SAE J 1402 Type A

MARKING ON THE HOSE:

Indo-Maksson – Air Brake Hose I.D W.P
Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].
In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

EN 875 - 1SC

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius		 Weight	 Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
6.00	1/4	13.00	225	3263	900	13050	75	3	0.216	100 +
8.00	5/16	14.10	215	3118	860	12470	85	3.30	0.242	100+
10.00	3/8	16.30	180	2610	720	10440	90	3.50	0.308	100 +
12.00	1/2	20.10	160	2320	640	9280	130	5.10	0.442	100+
16.00	5/8	22.50	130	1885	520	7540	150	5.90	0.481	100 +
20.00	3/4	26.20	105	1523	420	6090	180	7.10	0.596	100+
25.00	1	34.20	88	1276	352	5104	230	9.10	0.885	100

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Single braided high tensile steel wire

COVER:

Wrap & Smooth Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

Petroleum based hydraulic fluids and lubricating oils with extra flexible routing

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

EN 875 - 1SC

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - EN 875 - 1SC I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

EN 857-2SC

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
6.4	1/4	13.9	400	5000	1600	23200	51	2.0
7.9	5/16	15.2	350	5075	1400	20300	58	2.3
9.5	3/8	17.9	330	4785	1320	19140	64	2.5
12.7	1/2	21.1	275	3188	1100	15950	89	3.5
15.9	5/8	24.4	250	3625	1000	14500	101	4.0
19.1	3/4	28.3	215	3118	860	12470	122	4.8
25.4	1	36.1	165	2393	660	9570	152	6.0

TUBE:

Black, oil-resistant synthetic rubber (NBR)

REINFORCEMENT:

Double braided high tensile steel wire

COVER:

Wrap & Smooth Black, oil and abrasion-resistant synthetic rubber

TEMP RANGE:

-40°C to +100°C (+120°C intermittent)

APPLICATIONS:

Petroleum based hydraulic fluids and lubricating oils

PROPERTIES:

Uniform Thickness
High Pressure
Flexible

APPLICABLE STANDARDS:

SAE 100 R16 , EN 857- 2SC

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - SAE 100 R16 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

LOADER HOSE

ID		OD		Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm		BAR	PSI	BAR	PSI	mm	Inch
25	1	37.6		280	4000	830	12000	400	15.7

TUBE:

Black Colour, Synthetic Rubber

REINFORCEMENT:

Double High Tensile Steel Wire Braid

COVER:- Wrap & Smooth:

Black Colour, synthetic rubber available in wrap and smooth finish

TEMP RANGE:

-30°C to + 110°C approx

APPLICATIONS:

Specially designed for high pressure hydraulic lines in bigger size

PROPERTIES:

High Pressure
Smooth Finish
Spiral Alternative in special application

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

MARKING ON THE HOSE:

Indo-Maksson - Loader Hose 1" I.D W.P
Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

PRESSURE WASH HOSE 4K

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR
6.7	1/4	12	280	4000	830	12000	35	1.4	0.19
8.2	5/16	13.7	280	4000	830	12000	65	2.6	0.23
9.8	3/8	16	280	4000	830	12000	75	3.0	0.30
12.7	1/2	19.6	280	4000	830	12000	100	3.9	0.42

TUBE:

Pressure Wash Hose 4K

REINFORCEMENT:

Pressure Wash Hose 4K

COVER:- Wrap & Smooth:

Black Colour, Synthetic Cover resistant to abrasion and weather, oil & ozone. Available in other colours – Blue, Red, Grey and also Smooth Finish Cover on request

TEMP RANGE:

-10°C to + 155°C approx

APPLICATIONS:

For power washer applications with cold and hot water upto 155°C

PROPERTIES:

Flexible
High Pressure
Multiple Colours
Smooth Finish

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

MARKING ON THE HOSE:

Indo-Maksson – HYDRO – Pressure Washer Hose 4K
I.D W.P Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

PRESSURE WASH HOSE 6K

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR
6.7	1/4	13.6	415	6000	1245	18000	75	3.0	0.36
8.2	5/16	15.3	415	6000	1245	18000	85	3.3	0.37
9.8	3/8	17.4	415	6000	1245	18000	90	3.5	0.44

TUBE:

Black colour, synthetic rubber resistant to hot water

REINFORCEMENT:

Double steel wire braids

COVER: Wrap and Smooth

Black Colour, Synthetic Cover resistant to abrasion and weather, oil & Ozone.
Available in other colours – Blue, Red, Grey and also Smooth Finish Cover on request

TEMP RANGE:

-10°C to + 155°C approx

APPLICATIONS:

For power washer applications with cold and hot water upto 155°C

PROPERTIES:

Flexible
High Pressure
Multiple Colours
Smooth Finish

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

MARKING ON THE HOSE:

Indo-Maksson - HYDRO – Pressure Washer
Hose 6K I.D W.P Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.



WATER HOSE LL*

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
12.00	1/2	22.00	12	170	36	510	127	10.00	0.36	100
16.00	5/8	26.00	12	170	36	510	140	12.00	0.47	100
20.00	3/4	29.50	12	170	36	510	152	16.50	0.58	100
25.00	1	37.00	12	170	36	510	203	6.00	0.77	100
31.00	1.1/4	43.50	12	170	36	510	254	8.00	1.00	50
38.00	1.1/2	51.50	12	170	36	510	304	10.00	1.20	50
50.00	2	65.00	12	170	36	510	419	12.00	1.80	40

TUBE:

Specially Compounded Synthtic Rubber, Black

REINFORCEMENT:

Braiding of high strength synthetic fibre

COVER:

Black synthetic rubber cover

TEMP RANGE:

-40°C to +70°C

APPLICATIONS:

For all air and water applications that require seamless conveyance in any industry.

PROPERTIES:

Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 444 - Type I & Type II

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Air/Water Hose I.D. W.P.
Made in India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

WATER DELIVERY HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	mm	Mtr.
31	1¼	41	10	150	30	450	190	40/LL
38	1½	48	10	150	30	450	230	40/LL
50	2	62	10	150	30	450	310	40/LL
63	2½	76	10	150	30	450	380	40
75	3	87	10	150	30	450	460	40
100	4	115	10	150	30	450	610	40
125	5	142	10	150	30	450	760	40
150	6	168	10	150	30	450	920	40
200	8	225	10	150	30	450	1220	40

TUBE:

Specially Compounded Synthetic Rubber, Black

REINFORCEMENT:

High Strength Synthetic Plies

COVER:

Black synthetic rubber cover

TEMP RANGE:

-40°C to +70°C

APPLICATIONS:

For all heavy duty air and water applications that require seamless conveyance in any industry

PROPERTIES:

Seamless
Uniform Thickness
Very Strong

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Hydro Water Delivery Hose
I.D. W.P. India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

WATER SUCTION & DISCHARGE HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	bar	Mtr.
31	1¼	44	10	150	30	435	190	40/LL
38	1½	51	10	150	30	435	230	40/LL
50	2	64	10	150	30	435	310	40/LL
63	2½	78	10	150	30	435	380	40
75	3	91	10	150	30	435	460	40
100	4	119	10	150	30	435	610	40
125	5	146	10	150	30	435	760	40
150	6	173	10	150	30	435	920	40

TUBE:

Specially Compounded Synthetic Rubber, Black

REINFORCEMENT:

High Strength Synthetic Plies with Helix Wire

COVER:

Black synthetic rubber cover

TEMP RANGE:

-40°C to +70°C Approx

APPLICATIONS:

For suction and discharge of water and non corrosive inert fluid, waste water and sewerage etc.

PROPERTIES:

Seamless
Uniform Thickness
Very Strong

APPLICABLE STANDARDS:

IS : 3549

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Hydro Water S&D Hose
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

FUEL DISPENSING HOSE

 ID		 OD		 Working Pressure		 Bursting Pressure		 Bending Radius	 Max. Coil Length
mm	Inch	mm	Inch	Bar	PSI	Bar	PSI	bar	Mtr.
19.1	¾	29.5	1.16	16	232	48	696	152	6.0
25.4	1	36.0	1.42	16	232	48	696	203	8.0

TUBE:

Synthetic Rubber inner Tube

REINFORCEMENT:

High Strength steel wire braid

COVER:

Black synthetic rubber cover resistant to weather and petroleum based fuel

TEMP RANGE:

-40°C to +55°C

APPLICATIONS:

For dispensing Petrol & Diesel fuels

PROPERTIES:

Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

BS EN 1360 TYPE III

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Floil Fuel Dispensing Hose
I.D. W.P. India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

OIL SUCTION & DISCHARGE HOSE

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	 Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	bar	Mtr.
31	1¼	44	10	150	30	435	190	40/LL
38	1½	51	10	150	30	435	230	40/LL
50	2	64	10	150	30	435	310	40/LL
63	2½	78	10	150	30	435	380	40
75	3	91	10	150	30	435	460	40
100	4	119	10	150	30	435	610	40
125	5	146	10	150	30	435	760	40
150	6	173	10	150	30	435	920	40

TUBE:

Specially Compounded Oil Resistant Synthetic Rubber, Black

REINFORCEMENT:

High Strength Synthetic Plies with Helix Wire

COVER:

Black synthetic rubber cover resistant to oil

TEMP RANGE:

-26°C to +85°C Approx

APPLICATIONS:

For suction and discharge of oil and petroleum grades with aromatic contents upto 50% from tank truck and other similar industrial situations

PROPERTIES:

Seamless
Uniform Thickness
Flexible
Very Strong

APPLICABLE STANDARDS:

Exceeds IS 10733 : Type 1B and 2B

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Floil Suction and Discharge Hose
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

SANDBLAST HOSE LL*

										
ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
12.50	1/2	24.00	7	100	35	500	203	8.00	0.5	100+
20.00	3/4	35.00	7	100	35	500	203	8.00	1.00	100+
25.00	1	41.00	7	100	35	500	304	12.00	1.30	100
31.00	1.1/4	47.00	7	100	35	500	304	12.00	1.74	50
38.00	1.1/2	58.00	7	100	35	500	457	18.00	1.90	50
50.00	2	70.00	7	100	35	500	508	20.00	2.80	40

TUBE:

Specially compounded abrasion resistant natural rubber, high resilient

REINFORCEMENT:

Single braided high tensile yarn with copper wire

COVER:

Black abrasion resistant natural rubber cover. Wrap Finish.

TEMP RANGE:

-40°C to +70°C Approx

APPLICATIONS:

For shot and sand blasting applications that help in clearing metal surfaces, etching glass or smoothing casting

PROPERTIES:

High Abrasion Resistance
Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 5894 - Type I & Type II

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Sandblast Hose I.D. W.P.
Made in India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SAND BLAST HOSE 12

 ID		 OD	 Working Pressure		 Bursting Pressure		 Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	Mtr.
20	3/4	34	12	175	36	525	LL
25	1	40	12	175	36	525	LL
31	1 1/4	48	12	175	36	525	40/LL
38	1 1/2	54	12	175	36	525	40/LL
50	2	72	12	175	36	525	40/LL

TUBE:

Specially compounded abrasion resistant natural rubber, high resilience

REINFORCEMENT:

High tensile synthetic plies with copper wire

COVER:

Black abrasion resistant natural rubber cover. Wrap Finish.

TEMP RANGE:

-40°C to +70°C Approx

APPLICATIONS:

For shot and sand blasting applications that help in clearing metal surfaces, etching glass or smoothing casting.

PROPERTIES:

High Abrasion Resistance
Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 5894

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Tough Line Sandblast Hose 12
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SLURRY SUCTION HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	mm	Mtr.
31	1¼	44	10	150	30	435	190	40/LL
38	1½	51	10	150	30	435	230	40/LL
50	2	64	10	150	30	435	310	40/LL
63	2½	78	10	150	30	435	380	40
75	3	91	10	150	30	435	460	40
100	4	119	10	150	30	435	610	40
125	5	146	10	150	30	435	760	40
150	6	173	10	150	30	435	920	40

TUBE:

Specially compounded abrasion resistant natural rubber, high resilient

REINFORCEMENT:

High tensile synthetic plies with helix wire and copper wire

COVER:

Black abrasion resistant natural rubber cover. Wrap Finish

TEMP RANGE:

-40°C +70°C Approx

APPLICATIONS:

For suction and discharge of bulk material like cement, gravel and sand etc. in construction industry

PROPERTIES:

High Abrasion Resistance
Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Tough Line - Slurry Suction Hose
I.D. W.P. Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

CEMENT GROUTING HOSE

 ID		 OD	 Working Pressure		 Bursting Pressure		 Max. Coil Length
mm	Inch	mm	Bar	PSI	Bar	PSI	Mtr.
25	1	31	10	150	30	450	LL
31	1¼	38	10	150	30	450	40/LL
38	1½	48	10	150	30	450	40/LL
50	2	62	10	150	30	450	40/LL
63	2½	75	10	150	30	450	40
75	3	89	10	150	30	450	40
100	4	116	10	150	30	450	40

TUBE:

Specially compounded abrasion resistant natural rubber, high resilience

REINFORCEMENT:

High tensile synthetic plies with helix wire and copper wire

COVER:

Black abrasion resistant natural rubber cover. Wrap Finish

TEMP RANGE:

-40°C to +70°C

APPLICATIONS:

For cement grouting applications at building sites, irrigation projects & construction of roads. Also used for conveying dry and wet concrete mixture and cement

PROPERTIES:

High Abrasion Resistance
Seamless
Uniform Thickness

APPLICABLE STANDARDS:

Exceeds IS 5137 : 1990

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson Tough Line - Slurry Suction Hose
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice. All products can be customized as per customer requirement in terms of working pressure and special ID & OD requests*

CARBON FREE HOSE LL

										
ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
10.00	3/8	18.00	17.2	250	69	1000	150	5.90	-	100+
12.50	1/2	22.00	17.2	250	69	1000	102	4.00	0.44	100+
16.00	5/8	26.00	17.2	250	69	1000	115	4.5	0.60	100+
20.00	3/4	29.50	17.2	250	69	1000	127	5.00	0.62	100+
25.00	1	37.00	17.2	250	69	1000	127	5.00	0.91	100+
31.00	1.1/4	44.00	17.2	250	69	1000	152	6.00	1.20	50
38.00	1.1/2	51.50	17.2	250	69	1000	203	8.00	1.35	50
50.00	2	66.00	14	203	56	800	304	12.00	2.60	40

TUBE:

Specially engineered non conductive rubber, white

REINFORCEMENT: SUBJECT TO ID

One or Multiple layers of Textile reinforced subjected to ID

COVER:

Specially engineered Nitrile rubber cover, green

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

Speciality hose for non conductive applications, majorly catering to furnace coolant conveyance & low current leakage.

PROPERTIES:

Heat Resistant
Non-Conductive tube and cover
Uniform Thickness
Industry Leader

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

STANDARD COLOUR:

Inner Tube - White
Outer Cover - Green

MARKING ON THE HOSE:

Indo - Furnace- Carbon Free Hose LL Heat Resistant
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

CARBON FREE HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
31.00	1.1/4	44.00	17.2	250	69	1000	152	6.00	1.20	50
38.00	1.1/2	51.50	17.2	250	69	1000	203	8.00	1.35	50
50.00	2	66.00	14	203	56	800	304	12.00	2.60	40
56.00	2.1/4	77.00	14	203	56	800	500	19.70	3.50	40
70.00	2.3/4	90.00	14	203	56	800	800	31.50	7.60	40
75.00	3	96.00	14	203	56	800	635	25.00	1.90	40
88.00	3.1/2	111.00	14	203	56	800	1000	39.40	2.80	40
100.00	4	124.00	10	145	40	580	1200	47.20	1.90	40

TUBE:

Specially engineered non conductive rubber, white

REINFORCEMENT: SUBJECT TO ID

One or Multiple layers of Textile reinforced subjected to ID

COVER:

Specially engineered Nitrile rubber cover, green

TEMP RANGE:

-40°C to +100°C Approx

APPLICATIONS:

Speciality hose for non conductive applications, majorly catering to furnace coolant conveyance & low current leakage.

PROPERTIES:

Heat Resistant
Non-Conductive tube and cover
Uniform Thickness
Industry Leader

APPLICABLE STANDARDS:

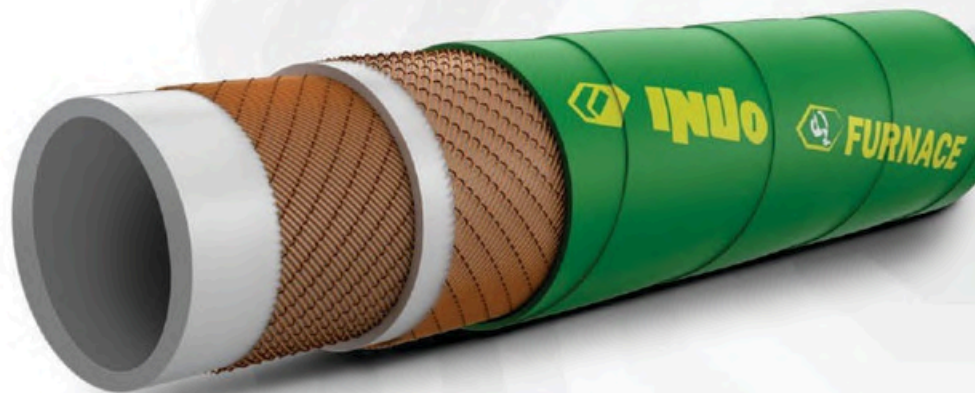
Indo-Maksson Proprietary

STANDARD COLOUR:

Inner Tube - White
Outer Cover - Green

MARKING ON THE HOSE:

Indo - Furnace- Carbon Free Hose Heat Resistant
I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

PNEUMATIC TOOL HOSE LL*

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
6.00	1/4	15.00	14	200	56	800	76	3.00	0.19	100+
8.00	5/16	16.00	14	200	56	800	102	4.00	0.25	100+
10.00	3/8	18.00	14	200	56	800	102	4.00	0.28	100+
12.50	1/2	22.00	14	200	56	800	127	5.00	0.36	100+
19.00	3/4	29.50	14	200	56	800	152	6.00	0.58	100+
25.40	1	37.00	14	200	56	800	203	8.00	0.77	100
31.00	1.1/4	43.50	14	200	56	800	254	10.00	1.00	50
38.00	1.1/2	51.50	14	200	56	800	305	12.00	1.20	50
50.00	2	65.00	14	200	56	800	305	12.00	1.80	40

TUBE:

Specially Compounded Synthtic Rubber, Black

REINFORCEMENT:

Braiding of high strength synthetic fibre

COVER:

Black rubber cover. Wrap Finish.

TEMP RANGE:

-30°C to +82°C

APPLICATIONS:

For all types of industries & pneumatic tools that use compressed air applications.

PROPERTIES:

Seamless
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 446 - Type II

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Pneumatic Tool Hose I.D. W.P.
Made in India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

PNEUMATIC TOOL HOSE 20

 ID		 OD	 Working Pressure		 Bursting Pressure		 Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	MTR
31	1.1/4	43	20	300	65	940	40/LL
38	1.1/2	50	20	300	65	940	40/LL
50	2	66	20	300	65	940	40/LL
63	2.1/2	79	20	300	65	940	40
75	3	93	20	300	65	940	40
100	4	118	20	300	65	940	40

TUBE:

Specially Compounded Synthetic Rubber resistant to oil mist, Black

REINFORCEMENT:

High strength synthetic plies

COVER:

Black rubber cover. Wrap Finish

TEMP RANGE:

-30°C to +82°C Approx

APPLICATIONS:

For heavy duty applications in industries & pneumatic tools that use compressed air applications

PROPERTIES:

Seamless
Heavy Duty
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

Exceeds IS 446 - Type II

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Pneumatic Tool Hose I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

ROCK DRILL HOSE LL*

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
12.50	1/2	21.00	21	300	84	1200	203	8.00	0.77	100+
20.00	3/4	30.00	21	300	84	1200	152	6.00	0.58	100+
25.00	1	37.50	21	300	84	1200	203	8.00	0.77	100

TUBE:

Specially Compounded NBR Rubber, Black

REINFORCEMENT:

Single braided high tensile yarn

COVER:

Black abrasion resistant Nitrile rubber cover.
Wrap Finish.

TEMP RANGE:

-30°C to +82°C

APPLICATIONS:

For all heavy duty use in industrial construction, rock drilling mines, crusher zones and other rugged conditions.

PROPERTIES:

Seamless
Uniform Thickness
Flexible
High Abrasion Resistance

APPLICABLE STANDARDS:

IS 446 - Type III

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Super Rock Drill Hose I.D. W.P.
Made in India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

ULTRA MINE RIG HOSE

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
38	1.1/2	53.8	90	1300	360	5500	510	20
50	2	66.5	70	1000	280	4000	635	25

TUBE:

Black Colour, Synthetic Rubber resistant to high temperature air.

REINFORCEMENT:

Double High Tensile Steel Wire Braid

COVER:

Black Colour, pin pricked synthetic rubber. Colour Available Yellow

TEMP RANGE:

-30°C to + 110°C approx

APPLICATIONS:

Specially designed for compressed air application drilling rigs, quarries, construction & general industry.

PROPERTIES:

Handles hot air
Higher Pressure

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

MARKING ON THE HOSE:

Indo-Maksson Ultra Mine Rig Hose I.D W.P
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

ROCK DRILL WB

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
20.00	3/4	27.50	60	870	240	3480	152	6.00
25.00	1	36.50	50	725	200	2900	201	7.90
31.00	1.1/4	44.00	50	725	200	2900	254	10.00
38.00	1.1/2	50.00	50	735	200	2900	304	12.00
50.00	2	63.50	40	580	160	2320	355	14.00
63.00	2.1/2	80.00	40	580	160	2320	762	30.00
75.00	3	94.00	40	580	160	2320	914	36.00

TUBE:

Special compound of NBR rubber, Black

REINFORCEMENT:

Single braided high tensile wire

COVER:

Specially compounded abrasion & mist resistant black nitrile rubber

TEMP RANGE:

-30°C to +82°C

APPLICATIONS:

For heavy duty, high pressure application in the industrial construction, heavy mining, crusher zones and other rugged conditions

PROPERTIES:

Oil & Mist Resistant

APPLICABLE STANDARDS:

Exceeds IS 446 - Type III

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Super Dynamic Rock Drill Hose I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

ROCK DRILL HOSE 25

ID		OD	Working Pressure		Bursting Pressure		Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	MTR
31	1.1/4	44½	25	360	75	1090	40/LL
38	1.1/2	52	25	360	75	1090	40/LL
50	2	68	25	360	75	1090	40/LL
63	2.1/2	80½	25	360	75	1090	40
75	3	94	25	360	75	1090	40
100	4	119½	25	360	75	1090	40

TUBE:

Specially Compounded Synthetic Rubber resistant to oil mist, Black

REINFORCEMENT:

High strength synthetic plies

COVER:

Black synthetic rubber cover, resistant to abrasion

TEMP RANGE:

-30°C to +82°C Approx

APPLICATIONS:

For heavy duty transfer of compressed air suitable for Pneumatic tools in mining, railways works, tunneling etc.

PROPERTIES:

Seamless
Heavy Duty
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 446 - Type II

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Rock Drill Hose 25 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

FOOD S & D HOSE UHMW-PE

								
ID		OD	Working Pressure		Bursting Pressure		Weight	Max. Length
mm	Inch	mm	BAR	PSI	BAR	PSI	KG/MTR	MTR
25	1	37	10	150	30	450	.8	40
31	1.1/4	44	10	150	30	450	1	40
38	1.1/2	50	10	150	30	450	1.3	40
51	2	63	10	150	30	450	2.2	40
63	2.1/2	78	10	150	30	450	3	40
76	3	92	10	150	30	450	3.6	40
102	4	118	10	150	30	450	5.6	40
125	5	145	10	150	30	450	6.8	40
152	6	172	10	150	30	450	8.8	40

TUBE:

White color, synthetic rubber with transparent UHMPE liner

REINFORCEMENT:

High tensile synthetic textile cord with steel helix

COVER:- Wrap & Smooth:

Blue color EPDM rubber resistant to ozone, weather, and abrasion

TEMP RANGE:

-30 degree C to + 150 degree C approx

APPLICATIONS:

Suction and delivery for multi-purpose application and mediums. 99.9% resistant to all foods and chemicals.

PROPERTIES:

Odorless
Tasteless
FDA approved
Also Available in 17 Bar

APPLICABLE STANDARDS:

Indo-Maksson Proprietary

STANDARD COLOUR:

Inner tube - White
Outer Cover - Blue, Grey, Green

MARKING ON THE HOSE:

Indo-Maksson - Food S&D UHMW-PE I.D W.P
Made in India



Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

CHEMICAL HOSE UHMW-PE-XLPE

 ID		 OD	 Working Pressure		 Bursting Pressure		 Max. Coil Length
mm	Inch	mm	BAR	PSI	BAR	PSI	MTR
31	1.1/4	43	16	260	48	720	40/LL
38	1.1/2	50	16	260	48	720	40/LL
50	2	66	16	260	48	720	40/LL
63	2.1/2	79	16	260	48	720	40
75	3	93	16	260	48	720	40
100	4	118	16	260	48	720	40

TUBE:

Translucent, non-conductive UHMW-PE Lining

REINFORCEMENT:

High tensile Synthetic Plies

COVER:

Perforated synthetic rubber cover, EPDM

TEMP RANGE:

-30°C to +100°C

APPLICATIONS:

Delivery hose for aggressive chemical products such as acid alkalies inorganic salt and alcoholic materials

PROPERTIES:

Highly Chemical resistant
Uniform Thickness
Flexible

STANDARD COLOUR:

Inner Tube - Translucent UHMW-PE lining, White
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Chemro Chemical Hose
UHMW-PE-XLPE I.D. W.P. India



Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

CHEMICAL HOSE LL*

ID		OD	Working Pressure		Bursting Pressure		Bending Radius		Max. Coil Length
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch	MTR
19	3/4	31	12	170	48	700	152	6	100+
25	1	38	12	170	48	700	203	8	100+
31	1.1/4	45	12	170	48	700	215	9	50
38	1.1/2	52	12	170	48	700	254	10	50
50	2	68	12	170	48	700	355	14	40

TUBE:

Synthetic rubber tube, EPDM, White & Black

REINFORCEMENT:

Braided high tensile yarn

COVER:

Perforated synthetic rubber cover, EPDM

TEMP RANGE:

-30°C to +100°C

APPLICATIONS:

For conveyance of a wide range of chemicals such as acid alkalies inorganic in salt and alcoholic materials

PROPERTIES:

Chemical resistant
Uniform Thickness
Flexible

STANDARD COLOUR:

Inner Tube - Black, White
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Chemro Chemical Hose
I.D. W.P. India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

SUPER SPRAY HOSE

ID		OD		Working Pressure		Bursting Pressure		Bending Radius		Weight	Max. Length
mm	Inch	mm		BAR	PSI	BAR	PSI	mm	Inch	KG/MTR	MTR
8.00	5/16	18.50		37.5	540	150	2200	80	3.14	0.24	100+
10.00	3/8	20.00		37.5	540	150	2200	102	4.00	0.38	100+
12.00	1/2	23.50		37.5	540	150	2200	127	5.00	0.39	100+

TUBE:

Modified Nitrile Rubber Compound, Black

REINFORCEMENT:

Single braided high tensile yarn

COVER:

Modified Nitrile Rubber, Black. Wrap Finish.

TEMP RANGE:

-30°C to +82°C Approx

APPLICATIONS:

For very high pressure spray applications likes pesticides and chemicals in agriculture and forestry.

PROPERTIES:

High Pressure
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 1677 Type 4

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Super Spray Hose I.D. W.P.
Made in India



STEAM HOSE LL*

 ID		 OD	 Working Pressure		 Bursting Pressure	
mm	Inch	mm	BAR	PSI	BAR	PSI
12.00	1/2	22.00	3.5	50	35	500
20.00	3/4	31.00	3.5	50	35	500
25.00	1	38.00	3.5	50	35	500
31.00	1.1/4	44.00	3.5	50	35	500
38.00	1.1/2	52.00	3.5	50	35	500
50.00	2	66.00	3.5	50	35	500

TUBE:

Black, EPDM

REINFORCEMENT:

Single braided high tensile yarn

COVER:

EPDM

TEMP RANGE:

-40°C to +185°C Approx

APPLICATIONS:

For saturated steam applications that can be resisted upto 185°C.

PROPERTIES:

High Temperature
Uniform Thickness
Flexible

APPLICABLE STANDARDS:

IS 10655 Type I

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Stream Line Steam Hose I.D. W.P.
Made in India



*Long Length

Specification Subject to change due to Improvement in Quality (E&O.E).

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

STEAM HOSE 2W

 ID		 OD	 Working Pressure		 Bursting Pressure		 Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
20.00	3/4	32.00	17	250	170	2500	112	4.40
25.00	1	37.50	17	250	170	2500	140	5.50
31.00	1.1/4	45.00	17	250	170	2500	202	8.00
38.00	1.1/2	52.00	17	250	170	2500	250	9.80
50.00	2	65.00	17	250	170	2500	300	11.80

TUBE:

Black, EPDM

REINFORCEMENT:

Double braided high tensile steel wire

COVER:

Black, EPDM

TEMP RANGE:

-40°C to +220 °C Approx

APPLICATIONS:

For saturated steam applications which can be resisted upto 220°C

PROPERTIES:

High Temperature
Highly Flexible
Uniform Thickness

APPLICABLE STANDARDS:

IS 10655 Type III

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

MARKING ON THE HOSE:

Indo-Maksson - Steam Hose Type 3 I.D. W.P.
Made in India



Specification Subject to change due to Improvement in Quality (E&O.E).
In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

STEAM HOSE 1W

ID		OD	Working Pressure		Bursting Pressure		Bending Radius	
mm	Inch	mm	BAR	PSI	BAR	PSI	mm	Inch
12.00	1/2	23.00	10	150	100	1500	-	-
16.00	5/8	26.20	10	150	100	1500	-	-
20.00	3/4	30.10	10	150	100	1500	254	10.00
25.00	1	36.00	10	150	100	1500	304	12.00
31.00	1.1/4	39.00	10	150	100	1500	406	16.00
38.00	1.1/2	50.00	10	150	100	1500	508	20.00
50.00	2	63.00	10	150	100	1500	635	25.50

TUBE:

Black, EPDM

REINFORCEMENT:

Single braided high tensile steel wire

COVER:

Black, EPDM

TEMP RANGE:

-40°C to +185°C Approx

APPLICATIONS:

For saturated steam applications which can be resisted upto 185°C.

PROPERTIES:

High Temperature
Flexible
Uniform Thickness

STANDARD COLOUR:

Inner Tube - Black
Outer Cover - Black

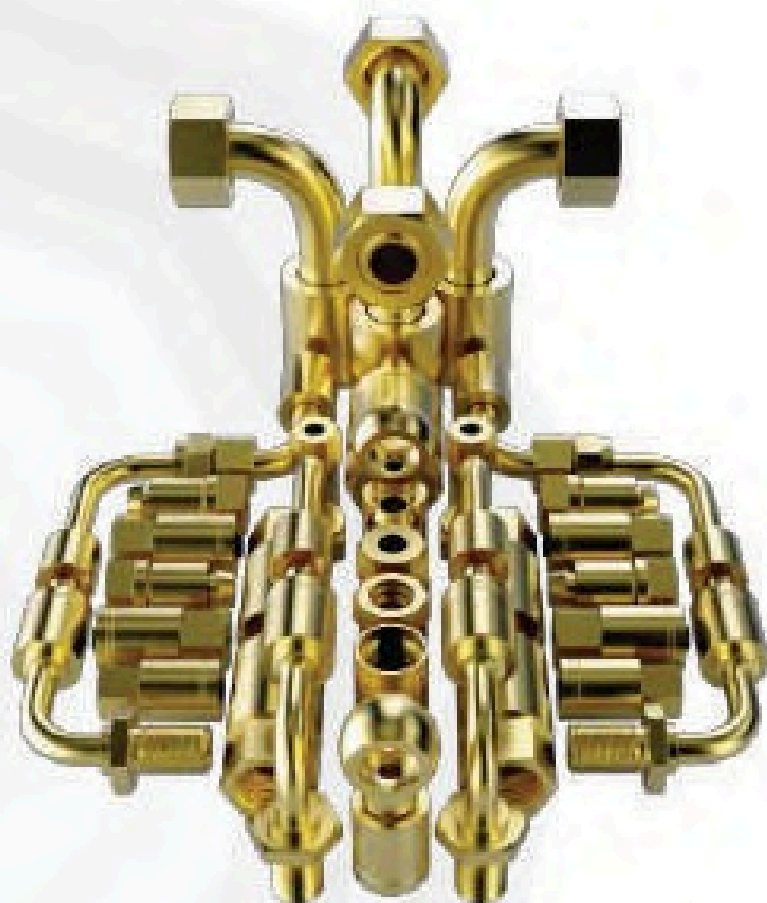
MARKING ON THE HOSE:

Indo-Maksson - Steam Hose Type 2 I.D. W.P.
Made in India



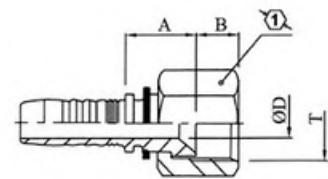
Specification Subject to change due to Improvement in Quality [E&O.E].

In the interest of Continual Development, the Company reserves the right to make modifications to these details without prior notice.

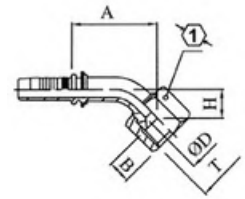


STANDARD FLUID CONNECTORS

STRAIGHT FEMALE SWIVEL SAE 37° FLARE (JIC)

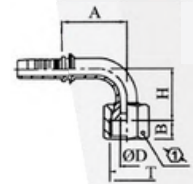


Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
FN52101(J)-03-03	3/8"-24	3/16	15.0	7.8	3.0	14
FN52101(J)-04-03	7/16"-20	3/16	15.0	8.7	3.0	15
FN52101(J)-04-04	7/16"-20	1/4	15.5	8.7	4.0	15
FN52101(J)-05-04	1/2"-20	1/4	16.0	9.5	4.0	17
FN52101(J)-04-05	7/16"-20	5/16	16.0	8.7	4.0	15
FN52101(J)-05-05	1/2"-20	5/16	16.0	9.5	5.5	17
FN52101(J)-06-05	9/16"-18	5/16	15.7	9.7	5.5	17
FN52101(J)-05-06	1/2"-20	3/8	16.0	9.5	5.5	17
FN52101(J)-06-06	9/16"-18	3/8	16.0	9.7	7.0	17
FN52101(J)-08-06	3/4"-16	3/8	18.0	10.6	7.0	22
FN52101(J)-08-08	3/4"-16	1/2	20.0	10.6	9.5	22
FN52101(J)-10-08	7/8"-14	1/2	21.0	12.6	9.5	27
FN52101(J)-10-10	7/8"-14	5/8	20.0	12.6	12.5	27
FN52101(J)-12-10	1.1/16"-12	5/8	21.7	14.4	12.5	32
FN52101(J)-10-12	7/8"-14	3/4	21.5	12.6	12.5	27
FN52101(J)-12-12	1.1/16"-12	3/4	22.5	14.4	15.0	32
FN52101(J)-16-12	1.5/16"-12	3/4	23.0	15.2	15.0	38
FN52101(J)-12-16	1.1/16"-12	1	23.5	14.4	15.0	32
FN52101(J)-16-16	1.5/16"-12	1	24.0	15.2	20.0	38
FN52101(J)-20-16	1.5/8"-12	1	30.0	16.2	20.0	50
FN52101(J)-20-20	1.5/8"-12	1.1/4	30.0	16.2	26.0	50
FN52101(J)-24-20	1.7/8"-12	1.1/4	35.0	18.8	26.0	60
FN52101(J)-24-24	1.7/8"-12	1.1/2	35.0	18.8	32.0	60
FN52101(J)-32-24	2.1/2"-12	1.1/2	35.5	24.0	32.0	75
FN52101(J)-24-32	1.7/8"-12	2	35.5	18.8	32.0	60
FN52101(J)-32-32	2.1/2"-12	2	35.5	24.0	44.0	75



45° ELBOW FEMALE SWIVEL SAE 37° FLARE (JIC)

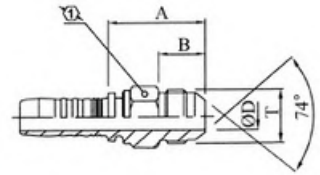
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA54301(J)-03-03	3/8"-24	3/16	32.5	12.5	8.0	3.0	14
BA54301(J)-04-03	7/16"-20	3/16	33.0	12.5	8.7	4.0	15
BA54301(J)-04-04	7/16"-20	1/4	35.5	16.8	8.7	4.0	15
BA54301(J)-05-04	1/2"-20	1/4	35.5	16.5	9.5	4.0	17
BA54301(J)-05-05	1/2"-20	5/16	37.0	14.5	9.5	5.0	17
BA54301(J)-06-05	9/16"-18	5/16	38.0	14.5	9.7	5.0	17
BA54301(J)-06-06	9/16"-18	3/8	42.0	16.5	9.7	7.0	17
BA54301(J)-08-06	3/4"-16	3/8	41.0	17.5	11.0	7.0	22
BA54301(J)-08-08	3/4"-16	1/2	52.0	20.0	10.6	9.0	22
BA54301(J)-10-08	7/8"-14	1/2	49.5	17.0	12.8	9.0	27
BA54301(J)-10-10	7/8"-14	5/8	62.0	25.5	12.6	12.0	27
BA54301(J)-12-10	1.1/16"-12	5/8	60.0	28.5	14.5	12.0	32
BA54301(J)-12-12	1.1/16"-12	3/4	70.0	27.5	14.5	15.0	32
BA54301(J)-16-12	1.5/16"-12	3/4	70.0	34.0	15.2	15.0	38
BA54301(J)-16-16	1.5/16"-12	1	86.0	32.0	15.2	19.0	38
BA54301(J)-20-20	1.5/8"-12	1.1/4	103.5	41.5	16.2	26.0	50
BA54301(J)-24-24	1.7/8"-12	1.1/2	119.0	46.5	18.8	32.0	60



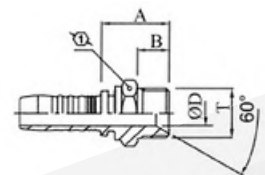
90° ELBOW FEMALE SWIVEL SAE 37 °FLARE (JIC)

Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA54801(J)-03-03	7/16"-20	1/4	28.5	27.0	8.7	4.0	15
BA54801(J)-05-04	1/2"-20	1/4	28.5	27.5	9.5	4.0	17
BA54801(J)-05-05	1/2"-20	5/16	29.5	27.5	9.5	5.0	17
BA54801(J)-06-05	9/16"-18	5/16	31.0	28.5	9.7	5.0	17
BA54801(J)-06-06	9/16"-18	3/8	35.5	32.5	9.7	7.0	17
BA54801(J)-08-06	3/4"-16	3/8	36.5	29.5	11.0	7.0	22
BA54801(J)-08-08	3/4"-16	1/2	44.0	41.0	10.6	9.0	22
BA54801(J)-10-08	7/8"-14	1/2	45.0	36.0	12.8	9.0	27
BA54801(J)-10-10	7/8"-14	5/8	53.5	52.5	12.6	12.0	27
BA54801(J)-12-10	1.1/16"-12	5/8	51.5	50.0	14.5	12.0	32
BA54801(J)-12-12	1.1/16"-12	3/4	62.0	58.0	14.5	15.0	32
BA54801(J)-16-12	1.5/16"-12	3/4	65.0	67.0	15.2	15.0	38
BA54801(J)-12-16	1.1/16"-12	1	62.0	58.0	14.5	15.0	32
BA54801(J)-16-16	1.5/16"-12	1	77.0	67.0	15.2	19.0	38
BA54801(J)-20-16	1.5/8"-12	1	77.5	74.5	16.2	19.0	50
BA54801(J)-20-20	1.5/8"-12	1.1/4	90.5	86.5	16.2	26.0	50
BA54801(J)-24-20	1.7/8"-12	1.1/4	92.0	91.0	18.8	26.0	60

STRAIGHT MALE SAE 37° FLARE (JIC)



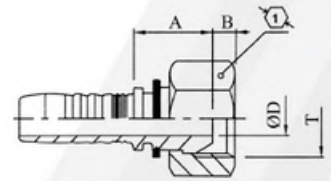
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN52201(J)-04-03	7/16"-20	3/16	28.0	14.0	3.0	17
MN52201(J)-04-04	7/16"-20	1/4	28.0	14.0	4.0	17
MN52201(J)-05-05	1/2"-20	5/16	29.0	14.0	5.5	17
MN52201(J)-06-06	9/16"-18	3/8	29.5	14.0	7.0	19
MN52201(J)-06-08	9/16"-18	1/2	29.5	14.0	7.0	24
MN52201(J)-08-08	3/4"-16	1/2	34.5	16.5	9.5	24
MN52201(J)-10-08	7/8"-14	1/2	39.5	19.5	9.5	24
MN52201(J)-08-10	3/4"-16	5/8	34.5	16.5	9.5	22
MN52201(J)-10-10	7/8"-14	5/8	39.5	19.5	12.5	24
MN52201(J)-12-10	1.1/16"-12	5/8	44.0	22.0	12.5	30
MN52201(J)-12-12	1.1/16"-12	3/4	44.0	22.0	15.0	30
MN52201(J)-16-12	1.5/16"-12	3/4	48.0	23.0	15.0	36
MN52201(J)-16-16	1.5/16"-12	1	48.0	23.0	20.0	36
MN52201(J)-20-20	1.5/8"-12	1.1/4	53.5	24.5	26.0	46
MN52201(J)-24-20	1.7/8"-12	1.1/2	60.5	27.5	26.0	50
MN52201(J)-24-32	1.7/8"-12	2	60.5	27.5	26.0	65



STRAIGHT MALE NPTF

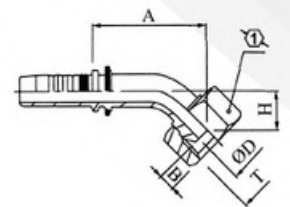
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN52201(T)-03-03	1/8"-27	3/16	28.0	14.0	3.0	15
MN52201(T)-04-03	1/4"-18	3/16	28.5	14.5	3.0	15
MN52201(T)-04-04	1/4"-18	1/4	29.0	14.5	4.3	17
MN52201(T)-05-05	1/4"-18	5/16	29.0	14.5	6.0	17
MN52201(T)-06-05	3/8"-18	5/16	29.5	14.5	6.0	19
MN52201(T)-05-06	1/4"-18	3/8	29.0	14.5	6.0	19
MN52201(T)-06-06	3/8"-18	3/8	29.5	14.5	7.5	19
MN52201(T)-08-06	1/2"-14	3/8	34.0	19.5	7.5	22
MN52201(T)-06-08	3/8"-18	1/2	31.0	14.5	7.5	22
MN52201(T)-08-08	1/2"-14	1/2	35.0	19.5	10.0	22
MN52201(T)-10-10	1/2"-14	5/8	36.0	19.5	12.2	24
MN52201(T)-12-10	3/4"-14	5/8	36.0	19.5	12.2	30
MN52201(T)-12-12	3/4"-14	3/4	36.5	19.5	16.0	32
MN52201(T)-16-12	1"-11.1/2	3/4	43.0	24.5	16.0	36
MN52201(T)-16-16	1"-11.1/2	1	44.0	24.5	20.0	38
MN52201(T)-20-20	1.1/4"-11.1/2	1.1/4	56.5	25.0	26.0	46
MN52201(T)-24-24	1.1/2"-11.1/2	1.1/2	57.5	26.0	32.0	50
MN52201(T)-32-32	2"-11.1/2	2	64.5	26.5	45.0	65

STRAIGHT FEMALE SWIVEL BSP 60° CONE



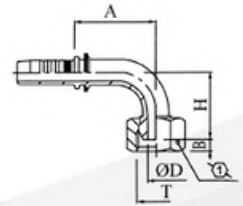
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
FN62101-03-03	G.1/8"-28	3/16	16.5	5.0	3.0	14
FN62101-04-04	G.1/4"-19	1/4	17.0	5.5	4.0	17
FN62101-05-05	G.1/4"-19	5/16	18.0	5.5	5.0	17
FN62101-06-05	G.3/8"-19	5/16	18.0	6.0	5.0	22
FN62101-06-06	G.3/8"-19	3/8	19.5	6.0	7.0	22
FN62101-08-06	G.1/2"-14	3/8	21.0	6.5	7.0	27
FN62101-06-08	G.3/8"-19	1/2	19.5	6.0	7.0	22
FN62101-08-08	G.1/2"-14	1/2	21.5	6.5	9.5	27
FN62101-08-10	G.1/2"-14	5/8	22.0	6.5	9.5	27
FN62101-10-10	G.5/8"-14	5/8	22.0	7.5	12.5	27
FN62101-12-10	G.3/4"-14	5/8	24.0	9.0	12.5	32
FN62101-12-12	G.3/4"-14	3/4	24.5	9.0	15.0	32
FN62101-16-12	G.1"-11	3/4	27.0	10.5	15.0	38
FN62101-16-16	G.1"-11	1	27.5	10.5	20.0	38
FN62101-20-16	G.1.1/4"-11	1	30.5	11.5	20.0	50
FN62101-20-20	G.1.1/4"-11	1.1/4	31.5	11.5	26.0	50
FN62101-24-24	G.1.1/2"-11	1.1/2	33.0	12.5	32.0	55
FN62101-32-32	G.2"-11	2	35.0	16.1	42.0	70

45° ELBOW FEMALE SWIVEL BSP 60° CONE



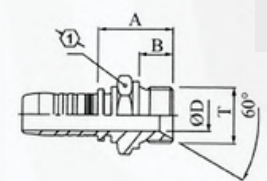
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA64301-04-04	G.1/4"-19	1/4	36.0	15.0	5.5	3.0	17
BA64301-06-06	G.3/8"-19	3/8	42.0	16.5	6.0	6.0	22
BA64301-08-08	G.1/2"-14	1/2	49.5	18.0	6.5	7.0	27
BA64301-10-10	G.5/8"-14	5/8	63.0	27.5	7.5	10.0	27
BA64301-12-12	G.3/4"-14	3/4	70.5	29.5	9.0	13.0	32
BA64301-16-16	G.1"-11	1	91.0	36.5	10.5	20.0	38
BA64301-20-20	G.1.1/4"-11	1.1/4	102.0	39.0	11.5	25.0	50
BA64301-24-24	G.1.1/2"-11	1.1/2	118.0	45.0	12.5	31.0	55

90° ELBOW FEMALE SWIVEL BSP 60° CONE



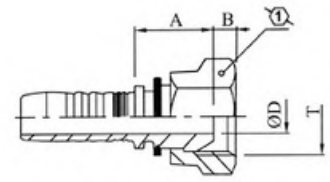
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA64801-04-04	G.1/4"-19	1/4	29.5	29.0	5.5	3.0	17
BA64801-06-05	G.3/8"-19	5/16	32.0	27.5	6.0	5.0	22
BA64801-06-06	G.3/8"-19	3/8	36.5	31.5	6.0	6.0	22
BA64801-08-06	G.1/2"-14	3/8	36.5	32.0	6.5	6.0	27
BA64801-08-08	G.1/2"-14	1/2	45.0	36.5	6.5	7.0	27
BA64801-10-10	G.5/8"-14	5/8	53.5	53.5	7.5	10.0	27
BA64801-12-10	G.3/4"-14	5/8	53.5	55.0	9.5	10.0	32
BA64801-12-12	G.3/4"-14	3/4	61.5	59.5	9.0	13.0	32
BA64801-16-16	G.1"-11	1	79.5	76.0	10.5	20.0	38
BA64801-20-20	G.1.1/4"-11	1.1/4	90.5	83.5	11.5	25.0	50
BA64801-24-24	G.1.1/2"-11	1.1/2	108.0	98.5	12.5	31.0	55

STRAIGHT MALE METRIC/BSP WITH 60° CONE



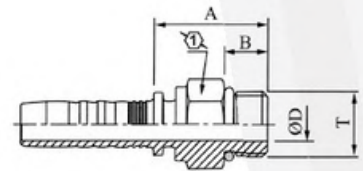
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN62201-04-04	G.1/4"-19	1/4	25.5	11.0	4.0	17
MN62201-05-05	G.1/4"-19	5/16	26.0	11.0	5.0	17
MN62201-06-06	G.3/8"-19	3/8	28.0	12.0	7.5	19
MN62201-08-08	G.1/2"-14	1/2	31.0	14.0	10.0	24
MN62201-10-10	G.5/8"-14	5/8	33.0	16.0	13.5	24
MN62201-12-12	G.3/4"-14	3/4	35.5	16.0	16.5	32
MN62201-16-12	G.1"-11	3/4	39.5	19.0	16.5	36
MN62201-16-16	G.1"-11	1	41.0	19.0	22.0	36
MN62201-20-16	G.1.1/4"-11	1	45.0	20.0	22.0	46
MN62201-20-20	G.1.1/4"-11	1.1/4	46.5	20.0	28.5	46
MN62201-20-24	G.1.1/4"-11	1.1/2	48.0	22.0	32.0	50
MN62201-24-24	G.1.1/2"-11	1.1/2	49.5	22.0	33.0	50
MN62201-32-32	G.2"-11	2	54.0	25.0	46.0	65

STRAIGHT FEMALE SWIVEL FOR MINING HOSE

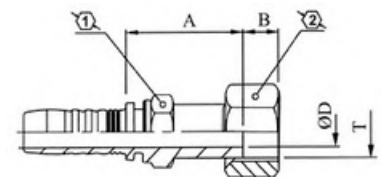


Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
FN62101(M)-04-04	G.1/4"-19	1/4	19.0	5.5	4.0	19
FN62101(M)-06-06	G.3/8"-19	3/8	20.0	6.5	7.0	24
FN62101(M)-08-08	G.1/2"-14	1/2	22.0	7.6	9.5	27
FN62101(M)-12-12	G.3/4"-14	3/4	23.5	11.1	15.0	36
FN62101(M)-16-16	G.1"-11	1	26.2	13.0	20.5	38
FN62101(M)-20-20	G.1.1/4"-11	1.1/4	26.5	11.5	26.0	50

STRAIGHT MALE/UNF SAE 'O' RING BOSS



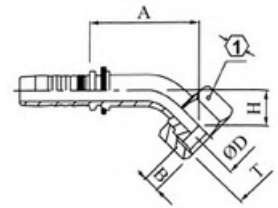
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN52201(O)-04-04	7/16"-20	1/4	20.0	9.0	4.0	14
MN52201(O)-05-05	1/2"-20	5/16	20.5	9.5	6.0	17
MN52201(O)-06-06	9/16"-18	3/8	22.0	10.0	7.0	19
MN52201(O)-08-06	3/4"-16	3/8	23.0	11.0	7.5	22
MN52201(O)-08-08	3/4"-16	1/2	25.0	11.0	9.0	22
MN52201(O)-10-08	7/8"-14	1/2	27.0	12.7	9.0	27
MN52201(O)-10-10	7/8"-14	5/8	30.0	12.7	12.0	27
MN52201(O)-12-10	1.1/16"-12	5/8	31.0	15.0	12.0	32
MN52201(O)-12-12	1.1/16"-12	3/4	30.0	15.0	15.0	32
MN52201(O)-10-12	7/8"-14	3/4	26.0	12.7	12.0	27
MN52201(O)-16-16	1.5/16"-12	1	34.0	15.0	20.0	41
MN52201(O)-20-20	1.5/8"-12	1.1/4	31.0	16.0	26.0	50



STRAIGHT ORS FEMALE SWIVEL

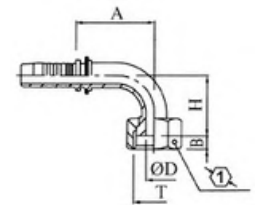
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	B	ØD	1	2
FN52101(O)-04-04	9/16"-18	1/4	30.0	8.0	4.0	17	17
FN52101(O)-05-04	11/16"-16	1/4	30.0	9.0	4.0	22	17
FN52101(O)-05-05	11/16"-16	5/16	35.0	9.0	6.0	22	17
FN52101(O)-06-06	11/16"-16	3/8	35.0	9.5	7.0	22	19
FN52101(O)-08-06	13/16"-16	3/8	40.0	11.0	7.0	24	19
FN52101(O)-08-08	13/16"-16	1/2	40.0	11.0	9.0	24	22
FN52101(O)-10-10	1"-14	5/8	45.0	13.5	11.5	30	24
FN52101(O)-12-12	1.16"-12	3/4	56.0	14.5	14.0	36	30
FN52101(O)-16-16	1.7/16"-12	1	54.0	15.0	20.0	41	36

45° ELBOW ORS FEMALE SWIVEL



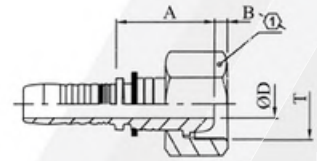
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BN54301(O)-04-04	9/16"-18	1/4	32.5	12.0	8.0	4.0	17
BN54301(O)-05-05	11/16"-16	5/16	34.0	11.5	9.5	6.0	22
BN54301(O)-06-06	11/16"-16	3/8	35.0	11.0	9.5	7.0	22
BN54301(O)-08-06	13/16"-16	3/8	44.0	12.5	11.0	7.0	24
BN54301(O)-08-08	13/16"-16	1/2	45.0	15.0	11.0	9.0	24
BN54301(O)-10-10	1"-14	5/8	49.0	16.5	13.5	11.0	30
BN54301(O)-12-12	1.3/16"-12	3/4	61.0	21.5	14.5	14.0	36
BN54301(O)-16-16	1.7/16"-12	1	69.0	24.0	15.0	18.0	41

90° ELBOW ORS FEMALE SWIVEL



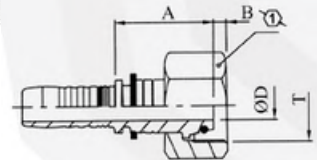
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA54801(O)-04-04	9/16"-18	1/4	28.0	24.0	8.0	4.0	17
BA54801(O)-05-04	11/16"-16	1/4	29.0	24.5	9.5	4.0	22
BA54801(O)-05-05	11/16"-16	5/16	30.0	24.5	9.5	6.0	22
BA54801(O)-06-06	11/16"-16	3/8	32.0	25.0	9.5	7.0	22
BA54801(O)-08-06	13/16"-16	3/8	40.0	26.5	11.0	7.0	24
BA54801(O)-08-08	13/16"-16	1/2	42.0	34.0	11.0	9.0	24
BA54801(O)-10-10	1"-14	5/8	47.0	37.5	13.5	11.0	30
BA54801(O)-12-12	1.3/16"-12	3/4	58.0	48.0	14.5	14.0	36
BA54801(O)-16-16	1.7/16"-12	1	68.0	56.0	15.0	18.0	41

STRAIGHT FEMALE SWIVEL FOR 24° AND 60° (FORM C ONLY FOR 60°)



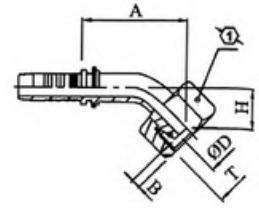
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1/16
FN42101(U)-04-04	M14x1.5	1/4	20.0	4.0	4.0	17
FN42101(U)-05-05	M16x1.5	5/16	22.0	4.0	6.0	19
FN42101(U)-05-06	M16x1.5	3/8	22.0	4.0	6.0	19
FN42101(U)-06-06	M18x1.5	3/8	22.0	4.0	7.0	22
FN42101(U)-08-08	M22x1.5	1/2	22.0	5.0	9.5	27
FN42101(U)-10-10	M26x1.5	5/8	22.0	5.5	12.5	32
FN42101(C)-12-12	M30x1.5	3/4	25.0	8.0	15.0	36
FN42101(C)-16-16	M38x1.5	1	25.0	7.5	20.0	46
FN42101(C)-20-20	M45x1.5	1.1/4	24.0	8.0	26.0	55
FN42101(C)-24-24	M52x1.5	1.1/2	26.0	8.0	32.0	60
FN42101(C)-32-32	M65x2.0	2	25.0	8.0	44.0	75

STRAIGHT FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE LIGHT SERIES



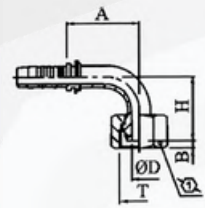
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1/16
FN42101(L)03-03	M12x1.5	3/16	22.0	2.0	3.0	17
FN42101(L)03-04	M12x1.5	1/4	21.0	2.0	3.0	17
FN42101(L)04-04	M14x1.5	1/4	23.0	2.0	4.0	17
FN42101(L)05-04	M16x1.5	1/4	26.0	2.0	4.0	19
FN42101(L)04-05	M14x1.5	5/16	22.0	2.0	4.0	17
FN42101(L)05-05	M16x1.5	5/16	26.0	2.0	6.0	19
FN42101(L)06-06	M18x1.5	3/8	27.0	2.5	7.0	22
FN42101(L)05-06	M16x1.5	3/8	23.0	2.0	6.0	19
FN42101(L)08-08	M22x1.5	1/2	30.0	2.5	9.5	27
FN42101(L)10-08	M26x1.5	1/2	30.0	2.5	9.5	32
FN42101(L)10-10	M26x1.5	5/8	30.0	2.5	12.5	32
FN42101(L)10-12	M26x1.5	3/4	32.0	2.5	12.5	32
FN42101(L)12-12	M30x2.0	3/4	34.0	3.5	15.0	36
FN42101(L)12-16	M30x2.0	1	34.0	3.5	15.0	36
FN42101(L)16-16	M36x2.0	1	35.0	4.0	20.0	41
FN42101(L)16-20	M36x2.0	1.1/4	38.0	4.0	20.0	41
FN42101(L)20-20	M45x2.0	1.1/4	40.0	5.0	26.0	50
FN42101(L)20-24	M45x2.0	1.1/2	40.0	5.0	26.0	50
FN42101(L)24-24	M52x2.0	1.1/2	40.0	5.0	32.0	60

45° ELBOW FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE LIGHT SERIES



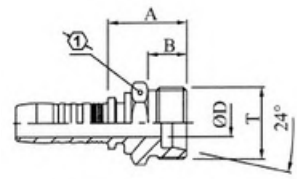
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA44301(L)-03-03	M12x1.5	3/16	37.0	15.0	2.0	3.0	17
BA44301(L)-04-04	M14x1.5	1/4	39.0	18.0	2.0	4.0	17
BA44301(L)-05-05	M16x1.5	5/16	42.0	19.0	2.0	5.0	19
BA44301(L)-05-06	M16x1.5	3/8	42.0	19.0	2.0	5.0	19
BA44301(L)-06-06	M18x1.5	3/8	45.0	21.0	2.5	7.0	22
BA44301(L)-08-08	M22x1.5	1/2	48.0	22.0	2.5	9.0	27
BA44301(L)-10-10	M26x1.5	5/8	60.0	28.0	2.5	12.0	32
BA44301(L)-12-12	M30x2.0	3/4	68.0	30.0	3.5	15.0	36
BA44301(L)-16-16	M36x2.0	1	80.0	32.0	4.0	19.0	41
BA44301(L)-20-20	M45x2.0	1.1/4	90.0	36.0	5.0	26.0	50
BA44301(L)-24-24	M52x2.0	1.1/2	110.0	45.0	5.0	32.0	60

90° ELBOW FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE LIGHT SERIES



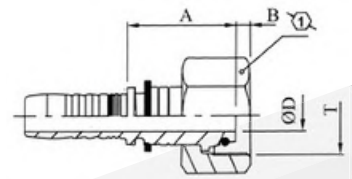
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA44801(L)-03-03	M12x1.5	3/16	26.0	30.0	2.0	3.0	17
BA44801(L)-03-04	M12x1.5	1/4	28.0	32.0	2.0	3.0	17
BA44801(L)-04-04	M14x1.5	1/4	30.0	32.0	2.0	4.0	17
BA44801(L)-04-05	M14x1.5	5/16	31.5	31.0	2.0	4.0	17
BA44801(L)-05-05	M16x1.5	5/16	32.0	33.0	2.0	5.0	19
BA44801(L)-06-05	M18x1.5	5/16	33.0	35.0	2.5	5.0	22
BA44801(L)-05-06	M16x1.5	3/8	36.0	36.0	2.0	5.0	19
BA44801(L)-06-06	M18x1.5	3/8	37.0	38.0	2.5	7.0	22
BA44801(L)-08-08	M22x1.5	1/2	42.0	43	2.5	9.0	27
BA44801(L)-10-10	M26x1.5	5/8	53.0	56.0	2.5	12.0	32
BA44801(L)-12-12	M30x2.0	3/4	60.0	60.0	3.5	15.0	36
BA44801(L)-16-16	M36x2.0	1	77.0	70.0	4.0	19.0	41
BA44801(L)-20-20	M45x2.0	1.1/4	90.0	80.0	5.0	26.0	50
BA44801(L)-20-24	M45x2.0	1.1/2	95.0	84.0	5.0	26.0	50
BA44801(L)-24-24	M52x2.0	1.1/2	105.0	98.0	5.0	32.0	60

METRIC MALE 24° CONE LIGHT SERIES



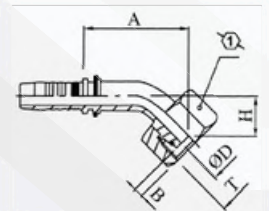
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN42201(L)-03-03	M12X1.5	3/16	21.0	10.0	3.0	14
MN42201(L)-03-04	M12x1.5	1/4	22.0	10.0	3.0	17
MN42201(L)-04-04	M14x1.5	1/4	22.0	10.0	4.0	17
MN42201(L)-05-04	M16x1.5	1/4	24.0	11.0	4.0	17
MN42201(L)-05-05	M16x1.5	5/16	24.0	11.0	5.0	17
MN42201(L)-06-05	M18x1.5	5/16	25.0	11.0	5.0	19
MN42201(L)-05-06	M16x1.5	3/8	25.0	11.0	5.0	19
MN42201(L)-06-06	M18x1.5	3/8	25.0	11.0	7.0	19
MN42201(L)-08-06	M22x1.5	3/8	26.0	12.0	7.0	24
MN42201(L)-06-08	M18x1.5	1/2	25.0	11.0	7.0	24
MN42201(L)-08-08	M22x1.5	1/2	26.0	12.0	9.0	24
MN42201(L)-10-08	M26x1.5	1/2	27.0	12.0	9.0	27
MN42201(L)-08-10	M22x1.5	5/8	26.0	12.0	9.0	27
MN42201(L)-10-10	M26x1.5	5/8	27.0	12.0	12.0	27
MN42201(L)-12-12	M30x2.0	3/4	30.0	14.0	15.0	32
MN42201(L)-12-16	M30x2.0	1	30.0	14.0	15.0	36
MN42201(L)-16-16	M36x2.0	1	32.0	14.0	19.0	41
MN42201(L)-20-20	M45x2.0	1.1/4	36.0	16.0	26.0	46
MN42201(L)-24-24	M52x2.0	1.1/2	38.0	16.0	32.0	55

STRAIGHT FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE HEAVY SERIES



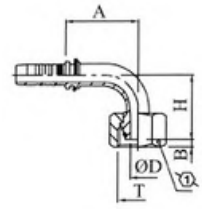
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
FN42101(H)-03-03	M16x1.5	3/16	26.0	3.0	3.0	19
FN42101(H)-03-04	M16x1.5	1/4	26.0	3.0	3.0	19
FN42101(H)-04-04	M18x1.5	1/4	27.0	3.0	4.0	22
FN42101(H)-04-05	M18x1.5	5/16	28.0	3.0	4.0	22
FN42101(H)-05-05	M20x1.5	5/16	28.0	2.5	5.0	24
FN42101(H)-05-06	M20x1.5	3/8	29.0	2.5	5.0	24
FN42101(H)-06-06	M22x1.5	3/8	31.0	3.0	7.0	27
FN42101(H)-08-06	M24x1.5	3/8	31.0	3.0	7.0	30
FN42101(H)-08-08	M24x1.5	1/2	32.0	3.0	9.0	30
FN42101(H)-08-10	M24x1.5	5/8	34.0	3.0	9.0	30
FN42101(H)-10-10	M30x2.0	5/8	36.0	3.5	12.0	36
FN42101(H)-10-12	M30x2.0	3/4	35.0	3.5	12.0	36
FN42101(H)-12-12	M36x2.0	3/4	40.0	4.5	15.0	46
FN42101(H)-12-16	M36x2.0	1	36.0	4.5	15.0	41
FN42101(H)-16-16	M42x2.0	1	43.0	6.5	19.0	50
FN42101(H)-20-16	M52x2.0	1	45.0	8.0	19.0	60
FN42101(H)-16-20	M42x2.0	1.1/4	46.0	6.5	19.0	50
FN42101(H)-20-20	M52x2.0	1.1/4	48.0	8.0	26.0	60
FN42101(H)-20-24	M52x2.0	1.1/2	50.0	8.0	26.0	60
FN42101(H)-24-24	M68x2.0	1.1/2	53.0	8.0	32.0	80

45° ELBOW FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE HEAVY SERIES



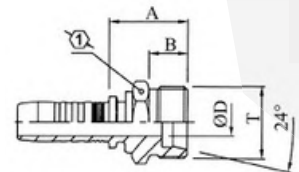
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA44301(H)-03-03	M16x1.5	3/16	34.0	16.0	3.0	3.0	19
BA44301(H)-03-04	M16x1.5	1/4	36.0	17.0	3.0	3.0	19
BA44301(H)-04-04	M18x1.5	1/4	38.0	17.0	3.0	4.0	22
BA44301(H)-05-05	M20x1.5	5/16	41.0	18.5	2.5	5.0	24
BA44301(H)-05-06	M20x1.5	3/8	44.0	19.0	2.5	5.0	24
BA44301(H)-06-06	M22x1.5	3/8	45.0	20.0	3.0	7.0	27
BA44301(H)-08-08	M24x1.5	1/2	51.0	23.0	3.0	9.0	30
BA44301(H)-08-10	M24x1.5	5/8	53.0	29.0	3.0	9.0	30
BA44301(H)-10-10	M30x2.0	5/8	60.0	30.0	3.5	12.0	36
BA44301(H)-12-12	M36x2.0	3/4	72.0	32.5	4.5	15.0	46
BA44301(H)-16-16	M42x2.0	1	80.0	36.0	6.5	19.0	50
BA44301(H)-20-20	M52x2.0	1.1/4	92.0	40.4	8.0	26.0	60

90° ELBOW FEMALE SWIVEL(O-RING) FOR METRIC MALE 24° CONE HEAVY SERIES



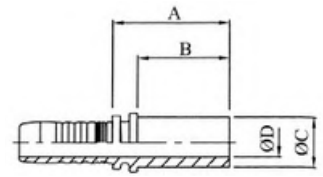
Reference No.	Thread Size	Hose Size	Dimensions in mm				
	T	Inch	A	H±2.5	B	ØD	1
BA44801(H)-03-03	M16x1.5	3/16	47.0	30.5	3.0	3.0	19
BA44801(H)-03-04	M16x1.5	1/4	30.0	31.0	3.0	3.0	19
BA44801(H)-04-04	M18x1.5	1/4	31.0	33.5	3.0	4.0	22
BA44801(H)-04-05	M18x1.5	5/16	32.0	33.5	3.0	4.0	22
BA44801(H)-05-05	M20x1.5	5/16	34.0	36.5	2.5	5.0	24
BA44801(H)-05-06	M20x1.5	3/8	37.0	35.0	2.5	5.0	24
BA44801(H)-06-06	M22x1.5	3/8	38.0	42.0	3.0	7.0	27
BA44801(H)-08-08	M24x1.5	1/2	46.0	49.0	3.0	9.0	30
BA44801(H)-08-10	M24x1.5	5/8	48.0	47.5	3.0	9.0	30
BA44801(H)-10-10	M30x2.0	5/8	52.0	53.5	3.5	12.0	36
BA44801(H)-10-12	M30x2.0	3/4	54.0	58.0	3.5	12.0	36
BA44801(H)-12-12	M36x2.0	3/4	62.0	64.5	4.5	15.0	46
BA44801(H)-16-12	M42x2.0	3/4	74.0	75.5	6.5	15.0	50
BA44801(H)-12-16	M36x2.0	1	72.0	64.5	4.5	15.0	41
BA44801(H)-16-16	M42x2.0	1	75.0	75.0	6.5	19.0	50
BA44801(H)-16-20	M42x2.0	1.1/4	78.0	75.0	6.5	19.0	50
BA44801(H)-20-20	M52x2.0	1.1/4	84.0	81.5	8.0	26.0	60

METRIC MALE 24° CONE HEAVY SERIES



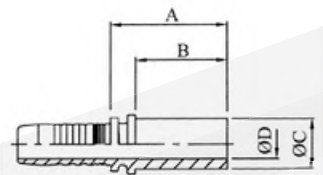
Reference No.	Thread Size	Hose Size	Dimensions in mm			
	T	Inch	A	B	ØD	1
MN42201(H)-03-03	M16x1.5	3/16	23.0	12.0	3.0	17
MN42201(H)-03-04	M16x1.5	1/4	24.0	12.0	3.0	17
MN42201(H)-04-04	M18x1.5	1/4	27.0	12.0	4.0	19
MN42201(H)-05-04	M20x1.5	1/4	28.0	12.0	4.0	22
MN42201(H)-05-05	M20x1.5	5/16	29.0	12.0	5.0	22
MN42201(H)-05-06	M20x1.5	3/8	29.5	12.0	5.0	22
MN42201(H)-06-06	M22x1.5	3/8	31.0	14.0	7.0	24
MN42201(H)-08-06	M24x1.5	3/8	31.5	14.0	7.0	27
MN42201(H)-06-08	M22x1.5	1/2	31.0	14.0	7.0	24
MN42201(H)-08-08	M24x1.5	1/2	32.0	14.0	9.0	27
MN42201(H)-10-08	M30x2.0	1/2	34.0	16.0	9.0	32
MN42201(H)-10-10	M30x2.0	5/8	35.0	16.0	12.0	32
MN42201(H)-12-10	M36x2.0	5/8	38.0	18.0	12.0	41
MN42201(H)-10-12	M30x2.0	3/4	36.0	16.0	12.0	32
MN42201(H)-12-12	M36x2.0	3/4	40.0	18.0	15.0	41
MN42201(H)-16-16	M42x2.0	1	43.0	20.0	19.0	46
MN42201(H)-20-20	M52x2.0	1.1/4	48.0	22.0	26.0	55

STANDPIPE FOR METRIC MALE 24° CONE LIGHT SERIES



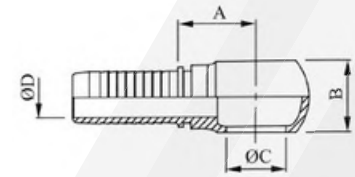
Reference No.	Pipe Size	Hose Size	Dimensions in mm		
	ØC	Inch	A	B	ØD
St.P52701(L)-03-03	6.0	3/16	31.5	22.0	3.0
St.P52701(L)-03-04	6.0	1/4	31.5	22.0	3.0
St.P52701(L)-04-04	8.0	1/4	31.5	22.0	4.0
St.P52701(L)-05-04	10.0	1/4	32.5	22.0	4.0
St.P52701(L)-04-05	8.0	5/16	33.0	22.0	4.0
St.P52701(L)-05-05	10.0	5/16	36.0	23.0	5.0
St.P52701(L)-06-05	12.0	5/16	37.0	23.0	5.0
St.P52701(L)-05-06	10.0	3/8	35.5	23.0	5.0
St.P52701(L)-06-06	12.0	3/8	36.5	23.0	7.0
St.P52701(L)-06-08	12.0	1/2	39.0	23.0	7.0
St.P52701(L)-08-08	15.0	1/2	38.0	25.0	9.0
St.P52701(L)-10-08	18.0	1/2	41.0	26.0	9.0
St.P52701(L)-10-10	18.0	5/8	39.5	26.0	12.0
St.P52701(L)-12-12	22.0	3/4	43.0	28.0	15.0
St.P52701(L)-16-16	28.0	1	46.0	30.0	19.0
St.P52701(L)-20-20	35.0	1.1/4	55.0	36.0	26.0
St.P52701(L)-24-24	42.0	1.1/2	55.0	40.0	32.0

STANDPIPE FOR METRIC MALE 24° CONE HEAVY SERIES



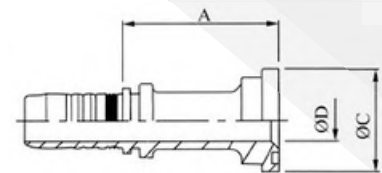
Reference No.	Pipe Size	Hose Size	Dimensions in mm		
	ØC	Inch	A	B	ØD
St.P52701(H)-03-03	8.0	3/16	34.0	24.0	3.0
St.P52701(H)-03-04	8.0	1/4	33.0	24.0	3.0
St.P52701(H)-04-04	10.0	1/4	35.0	26.0	4.0
St.P52701(H)-05-05	12.0	5/16	40.0	26.0	5.0
St.P52701(H)-05-06	12.0	3/8	37.0	26.0	5.0
St.P52701(H)-06-06	14.0	3/8	43.0	29.0	7.0
St.P52701(H)-08-06	16.0	3/8	44.0	30.0	7.0
St.P52701(H)-06-08	14.0	1/2	44.0	29.0	7.0
St.P52701(H)-08-08	16.0	1/2	43.0	30.0	9.0
St.P52701(H)-10-10	20.0	5/8	49.5	36.0	12.0
St.P52701(H)-12-12	25.0	3/4	56.0	40.0	15.0
St.P52701(H)-16-12	30.0	3/4	60.0	44.0	15.0
St.P52701(H)-12-16	25.0	1	54.0	40.0	15.0
St.P52701(H)-16-16	30.0	1	62.0	44.0	19.0
St.P52701(H)-20-20	38.0	1.1/4	71.0	50.0	26.0

STRAIGHT BANJO FOR METRIC BANJO BOLT AS PER IS:3172



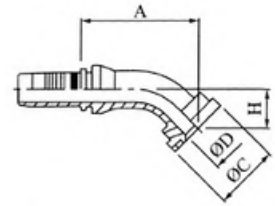
Reference No.	Pipe Size	Hose Size	Dimensions in mm		
	ØC	Inch	A	B	ØD
BJ08101-03-03	10.0	3/16	25.0	10.0	3.0
BJ08101-03-04	10.0	1/4	23.0	10.0	3.0
BJ08101-04-04	12.0	1/4	26.5	12.0	4.0
BJ08101-05-04	14.0	1/4	27.0	14.0	4.0
BJ08101-04-05	12.0	5/16	27.0	12.0	5.0
BJ08101-05-05	14.0	5/16	27.0	14.0	5.0
BJ08101-06-05	16.0	5/16	30.0	16.0	5.0
BJ08101-05-06	14.0	3/8	27.0	14.0	7.0
BJ08101-06-06	16.0	3/8	29.0	16.0	7.0
BJ08101-08-06	18.0	3/8	28.0	20.0	7.0
BJ08101-06-08	16.0	1/2	30.0	16.0	7.0
BJ08101-08-08	18.0	1/2	34.0	20.0	9.0
BJ08101-10-10	22.0	5/8	36.5	25.0	12.0
BJ08101-12-12	26.0	3/4	43.0	30.0	15.0
BJ08101-16-12	30.0	3/4	46.0	36.0	15.0
BJ08101-12-16	26.0	1	41.0	30.0	15.0
BJ08101-16-16	30.0	1	47.0	36.0	19.0

STRAIGHT SAE FLANGE SHOULDER STANDARD PRESSURE SERIES CODE 61 (3000 PSI)



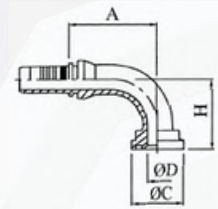
Reference No.	Flange Size	Hose Size	Dimensions in mm		
	Inch	Inch	A	ØD	ØC
FL08201-08-08	1/2	1/2	52.0	9.0	30.2
FL08201-12-10	3/4	5/8	48.0	12.0	38.1
FL08201-12-12	3/4	3/4	51.5	15.0	38.1
FL08201-16-12	1	3/4	51.5	15.0	44.4
FL08201-20-12	1.1/4	3/4	62.0	15.0	50.8
FL08201-16-12	1	1	64.0	19.0	44.4
FL08201-20-16	1.1/4	1	62.0	19.0	50.8
FL08201-24-16	1.1/2	1	64.0	19.0	60.3
FL08201-20-20	1.1/4	1.1/4	58.0	26.0	50.8
FL08201-24-20	1.1/2	1.1/4	60.0	26.0	60.3
FL08201-32-20	2	1.1/4	82.0	26.0	71.4
FL08201-20-24	1.1/4	1.1/2	64.0	26.0	50.8
FL08201-24-24	1.1/2	1.1/2	58.0	32.0	60.3
FL08201-32-24	2	1.1/2	82.0	32.0	71.4
FL08201-32-32	2	2	62.0	42.0	71.4
FL08201-40-32	2.1/2	2	64.0	42.0	84.1

45° ELBOW SAE FLANGE SHOULDER STANDARD PRESSURE SERIES CODE 61 (3000 PSI)



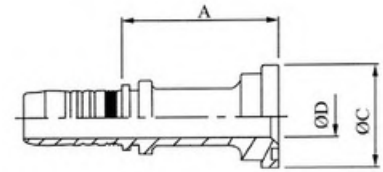
Reference No.	Flange Size	Hose Size	Dimensions in mm			
	Inch	Inch	H±2.5	A	ØD	ØC
BA04301-08-08	1/2	1/2	22.5	60.0	9.5	30.2
BA04301-12-12	3/4	3/4	25.4	62.5	15.0	38.1
BA04301-16-12	1	3/4	25.4	62.5	15.0	44.4
BA04301-16-16	1	1	28.5	64.0	19.0	44.4
BA04301-20-16	1.1/4	1	28.4	64.0	19.0	50.8
BA04301-16-20	1	1.1/4	25.0	63.0	19.0	44.4
BA04301-20-20	1.1/4	1.1/4	28.4	72.0	26.0	50.8
BA04301-24-20	1.1/2	1.1/4	28.4	74.0	26.0	60.3
BA04301-24-24	1.1/2	1.1/2	28.4	72.0	32.0	60.3
BA04301-32-24	2	1.1/2	28.4	72.0	32.0	71.4
BA04301-32-32	2	2	31.8	77.0	42.0	71.4
BA04301-40-32	2.1/2	2	43.5	106.0	42.0	84.1

90° ELBOW SAE FLANGE SHOULDER STANDARD PRESSURE SERIES CODE 61 (3000 PSI)



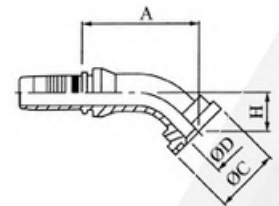
Reference No.	Flange Size	Hose Size	Dimensions in mm			
	Inch	Inch	H±2.5	A	ØD	ØC
BA04801-08-08	1/2	1/2	46.0	50.0	9.0	30.2
BA04801-12-12	3/4	3/4	54.0	59.5	15.0	38.1
BA04801-16-12	1	3/4	54.0	59.0	15.0	44.4
BA04801-12-16	3/4	1	68.0	70.0	15.0	38.1
BA04801-16-16	1	1	60.5	67.0	19.0	44.4
BA04801-20-16	1.1/4	1	60.5	65.0	19.0	50.8
BA04801-16-20	1	1.1/4	61.5	66.0	19.0	44.4
BA04801-20-20	1.1/4	1.1/4	63.5	70.0	26.0	50.8
BA04801-24-20	1.1/2	1.1/4	63.5	77.0	26.0	60.3
BA04801-20-24	1.1/4	1.1/2	71.0	75.0	26.0	50.8
BA04801-24-24	1.1/2	1.1/2	70.0	75.0	32.0	60.3
BA04801-32-24	2	1.1/2	70.0	75.0	32.0	71.4
BA04801-32-32	2	2	82.6	121.0	42.0	71.4
BA04801-40-32	2.1/2	2	121.5	122.0	42.0	84.1

STRAIGHT SAE FLANGE SHOULDER HIGH PRESSURE SERIES CODE 62 (6000 PSI)



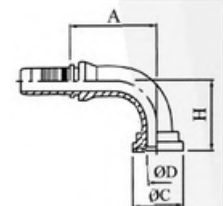
Reference No.	Flange Size	Hose Size	Dimensions in mm		
	Inch	Inch	A	ØD	ØC
FL08201(H)-12-12	3/4	3/4	64.0	15.0	41.3
FL08201(H)-12-16	3/4	1	62.0	15.0	41.3
FL08201(H)-16-16	1	1	69.0	19.0	47.6
FL08201(H)-20-16	1.1/4	1	75.0	19.0	54.0
FL08201(H)-20-20	1.1/4	1.1/4	76.6	26.0	54.0
FL08201(H)-24-20	1.1/2	1.1/4	82.5	26.0	63.5
FL08201(H)-20-24	1.1/4	1.1/2	75.5	26.0	54.0

45° ELBOW SAE FLANGE SHOULDER HIGH PRESSURE SERIES CODE 62 (6000 PSI)



Reference No.	Flange Size	Hose Size	Dimensions in mm			
	Inch	Inch	H±2.5	A	ØD	ØC
BA04301(H)-12-12	3/4	3/4	24.5	62.0	15.0	41.3
BA04301(H)-12-16	3/4	1	25.0	61.0	15.0	41.3
BA04301(H)-16-16	1	1	27.5	69.0	19.0	47.6
BA04301(H)-20-16	1.1/4	1	31.5	72.5	19.0	54.0
BA04301(H)-20-24	1.1/4	1.1/2	38.0	87.0	26.0	54.0

90° ELBOW SAE FLANGE SHOULDER HIGH PRESSURE SERIES CODE 62 (6000 PSI)



Reference No.	Flange Size	Hose Size	Dimensions in mm			
	Inch	Inch	H±2.5	A	ØD	ØC
BA04801(H)-12-10	3/4	5/8	50.5	53.0	12.0	41.3
BA04801(H)-12-12	3/4	3/4	86.0	70.0	15.0	41.3
BA04801(H)-12-16	3/4	1	86.0	69.0	15.0	41.3
BA04801(H)-16-16	1	1	67.5	69.5	19.0	47.6
BA04801(H)-20-16	1.1/4	1	77.5	74.0	19.0	54.0
BA04801(H)-16-20	1	1.1/4	81.0	67.0	19.0	47.6
BA04801(H)-20-20	1.1/4	1.1/4	77.5	73.0	26.0	54.0
BA04801(H)-20-24	1.1/4	1.1/2	100.0	76.5	26.0	54.0
BA04801(H)-24-24	1.1/2	1.1/2	100.0	92.0	32.0	63.5



701 Hydraulic (EN 856 4SP)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
701MSHA-6	3/8	9.5	17.5	21.4	6500	45.0	7.0	180	0.48	0.71
701MSHA-8	1/2	12.7	20.2	24.6	6000	41.5	9.0	230	0.60	0.90
701MSHA-10	5/8	15.9	23.8	28.0	5000	35.0	10.0	250	0.77	1.15
701MSHA-12	3/4	19.0	28.2	32.0	5000	35.0	11.8	300	1.04	1.55
701MSHA-16	1	25.4	35.3	39.5	4000	27.5	13.3	340	1.40	2.08

* Impulse test conducted with Parker Fittings.



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +212°F
(-40°C to +100°C)

Impulse Test :
Specified - 4,00,000 cycles.
Tested upto - 8,00,000 cycles.

731 Hydraulic (EN 856 4SH)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
731MSHA-12	3/4	19.0	28.4	32.0	6000	42.0	11.0	280	1.06	1.58
731MSHA-16	1	25.4	35.2	39.0	5500	38.0	13.5	340	1.36	2.03
731MSHA-20	1-1/4	31.8	41.9	45.3	4700	32.5	18.0	460	1.81	2.70
731MSHA-24	1-1/2	38.1	48.8	53.3	4200	29.0	22.0	560	2.21	3.29
731PMSHA-32PM*	2	50.8	63.2	68.0	3600	25.0	27.0	700	3.09	4.60

* Under validation with Parker Fittings / specification

* Impulse test conducted with Parker Fittings.



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +212°F
(-40°C to +100°C)

Impulse Test :
Specified - 4,00,000 cycles.
Tested upto - 8,00,000 cycles.

721 Hydraulic (EN 856 R12)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
721MSHA-6	3/8	9.5	17.2	20.0	4000	28.0	2.5	65	0.47	0.70
721MSHA-8	1/2	12.7	20.7	24.0	4000	28.0	3.5	90	0.56	0.84
721MSHA-10	5/8	15.9	24.6	27.2	4000	28.0	4.0	100	0.70	1.04
721MSHA-12	3/4	19.0	27.7	31.0	4000	28.0	4.7	120	0.94	1.40
721MSHA-16	1	25.4	34.9	38.0	4000	28.0	6.0	150	1.28	1.90
721MSHA-20	1-1/4	31.8	43.9	46.2	3000	21.0	8.2	210	1.68	2.50
721MSHA-24	1-1/2	38.1	50.4	53.3	2500	17.5	10.0	250	1.93	2.87
721PMSHA-32PM*	2	50.8	63.6	65.9	2500	17.5	25.0	635	2.76	4.10

* Under validation with Parker Fittings / specification

* Impulse test conducted with Parker Fittings.



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +257°F
(-40°C to +125°C)

Impulse Test :
Specified - 5,00,000 cycles.
Tested upto - 10,00,000 cycles.



781 Hydraulic (EN 856 R13)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
781MSHA-12	3/4	19.0	29.0	31.9	5000	35.0	9.5	240	1.04	1.55
781MSHA-16	1	25.4	35.6	38.5	5000	35.0	12.0	300	1.40	2.08
781MSHA-20	1-1/4	31.8	46.8	50.0	5000	35.0	16.5	420	2.59	3.85
781MSHA-24	1-1/2	38.1	54.3	57.6	5000	35.0	20.0	500	3.23	4.81
781PMSHA-32PM*	2	50.8	68.1	70.9	5000	35.0	25.0	630	4.48	6.67

* Under validation with Parker Fittings / specification

* Impulse test conducted with Parker Fittings.



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +257°F
(-40°C to +125°C)

Impulse Test :
Specified - 5,00,000 cycles.
Tested upto - 10,00,000 cycles.

421SN Hydraulic (EN 853 1SN / SAE 100 R1AT)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
421SNMSHA-4	1/4	6.4	11.1	13.4	3265	22.5	2.0	50	0.15	0.23
421SNMSHA-5	5/6	7.9	12.7	15.0	3120	21.5	2.3	58	0.18	0.27
421SNMSHA-6	3/8	9.5	15.1	17.4	2610	18.0	2.5	65	0.22	0.33
421SNMSHA-8	1/2	12.7	18.2	20.7	2320	16.0	3.5	90	0.30	0.44
421SNMSHA-10	5/8	15.9	21.4	23.9	1890	13.0	4.0	100	0.34	0.50
421SNMSHA-12	3/4	19.0	25.4	27.8	1525	10.5	4.8	120	0.46	0.68
421SNMSHA-16	1	25.4	33.3	35.8	1275	8.8	6.0	150	0.63	0.94
421SNMSHA-20	1-1/4	31.8	41.8	44.8	915	6.3	16.5	420	0.97	1.44
421SNMSHA-24	1-1/2	38.1	46.4	51.0	725	5.0	20.0	500	1.07	1.59
421SNMSHA-32	2	50.8	59.5	64.5	580	4.0	25.0	630	1.51	2.25

* Impulse test conducted with Parker Fittings.

"All hoses upto-16 have passed 1,50,000 cycles impulse test at half the Min. bend radius"



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +212°F
(-40°C to +100°C)

Impulse Test :
Specified - 1,50,000 cycles.
Tested upto - 3,00,000 cycles.

301SN Hydraulic (EN 853 2SN / SAE 100 R2AT)

# Part Number	Hose I.D.		Hose R.O.D mm	Hose O.D mm	Working Pressure		Minimum Bend Radius		Approx. Weight	
	inch	mm			psi	Mpa	inch	mm	lbs/ft	kg/m
301SNMSHA-4	1/4	6.4	12.9	15.0	5800	40.0	2.0	50	0.26	0.39
301SNMSHA-5	5/6	7.9	14.3	16.6	5100	35.0	2.2	58	0.29	0.43
301SNMSHA-6	3/8	9.5	16.9	19.0	4800	33.0	2.5	65	0.36	0.53
301SNMSHA-8	1/2	12.7	19.8	22.3	4000	27.5	3.5	90	0.42	0.63
301SNMSHA-10	5/8	15.9	23.0	25.5	3600	25.0	4.0	100	0.50	0.74
301SNMSHA-12	3/4	19.0	27.0	29.4	3100	21.5	4.8	120	0.64	0.95
301SNMSHA-16	1	25.4	34.9	38.1	2400	16.5	6.0	150	0.91	1.35
301SNMSHA-20	1-1/4	31.8	44.0	47.1	1800	12.5	16.5	420	1.52	2.26
301SNMSHA-24	1-1/2	38.1	50.8	54.5	1300	9.0	20.0	500	1.58	2.35
301SNMSHA-32	2	50.8	63.5	67.2	1160	8.0	25.0	630	1.96	2.92

* Impulse test conducted with Parker Fittings.

"All hoses upto-16 have passed 2,00,000 cycles impulse test at half the Min. bend radius"



Application : Petroleum base Hydraulic fluids and lubricating oils.

Temp. Range : -40°F to +212°F
(-40°C to +100°C)

Impulse Test :
Specified - 2,00,000 cycles.
Tested upto - 4,00,000 cycles.



CARBON FREE HOSE

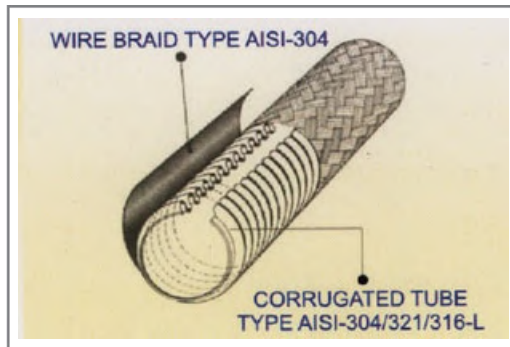
Non Conductive Hose

Nominal I.D.	inch	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
	mm	12.70	19.80	26.20	32.40	39.40	51.80	63.50	76.20
Mean O.D.	inch	0.85	1.22	1.48	1.78	2.11	2.60	3.18	3.68
	mm	21.60	31.00	37.50	45.20	53.60	66.00	81.00	93.50
Working Pressure	kg/cm ²	17.20	17.20	17.20	17.20	17.20	14.00	14.00	14.00
	Mpa	1.72	1.72	1.72	1.72	1.72	1.40	1.40	1.40
	psi	250.00	250.00	250.00	250.00	250.00	200.00	200.00	200.00
Minimum Burst Pressure	kg/cm ²	69.00	69.00	69.00	69.00	69.00	56.00	56.00	56.00
	Mpa	6.90	6.90	6.90	6.90	6.90	5.60	5.60	5.60
	psi	1000.00	1000.00	1000.00	1000.00	1000.00	800.00	800.00	800.00
Vacuum	in.Hg	25.00	25.00	25.00	25.00	20.00	10.00	10.00	5.00
Bend Radius	mm	101.60	127.00	152.40	190.50	203.20	304.00	508.00	635.00
	inch	4.00	5.00	6.00	7.50	8.00	12.00	20.00	25.00
Packing Spec Length in Meters	Max. (Lgth)	150	35.00	35.00	35.00	35.00	35.00	35.00	35.00
Service Temp. Range	Centi-grade	-40°C to +95°C							
CONSTRUCTION		TUBE : Modified synthetic Rubber, Grey. REINFORCEMENT : High tenacity synthetic yarn. COVER : Specially compounded nitrile, Green							
APPLICATION		Recommended for specialist furnace coolant application in electrical steel industry and other non-conductive applications. Engineered with specially developed carbon-free tube and cover, whereby meeting service requirements of low leakage current (less than 20 micro amp at 6 KV DC)							

STAINLESS STEEL CORRUGATED FLEXIBLE HOSES

HOSE

Stainless steel corrugated flexible hoses are offered from 6mm (1/4") to 300 mm (12"). The annular corrugated hose body provides the flexibility and pressure tight core of the assembly.



BRAID

Unbraided corrugated hoses tend to elongate when pressurised above a certain level. To restrain this, an external layer of stainless steel wire braiding is provided on the hose. Braiding prevents longitudinal expansion of corrugated hose and thus increases the internal pressure strength of the hose many fold. Braiding is highly flexible and exactly follows the movements of the hose.

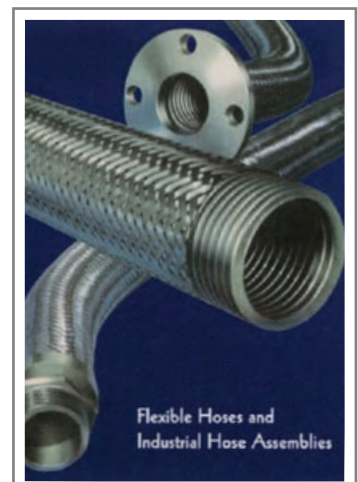
To increase the pressure ratings further, two or even three layers of braiding are provided. Unless specified, braiding in high tensile stainless steel AISI 304 wire, will be supplied. Braiding can also be supplied in copper, tinned copper or stainless steel AISI 316 in case of bulk requirements.



ASSEMBLIES

Hose assemblies are engineered to perfection in flexibility, strength and reliability. Aeroflex industries can provide a corrugated stainless steel hose assembly that will meet your most demanding technical specification. We can supply the hose complete with any type of end connections in various types of materials. The end connections are tig welded to hose.

HOSE ASSEMBLIES CAN BE SUPPLIED UNDER ANY THIRD PARTY INSPECTION, at Extra Cost.





PRESSURE RANGE

The recommended working pressure of type B hoses is given in table 1. We manufacture hoses for higher working pressure also. Kindly contact us with your specified requirement giving full detail of the working conditions for pulsating, surge or shocking pressure and the peak pressure must not exceed 50% of the max working pressure.

FLOW VELOCITY

Corrugated metal flexible hoses have limitations in case of fluids with high flow velocities. As the high velocity causes resonant vibrations, resulting in premature failures. Whenever flow velocity exceeds 50 m/sec for gas and 25 m/sec for liquids, an interlock hose liner should be used in the hose assemblies. The above flow velocity values get reduced to 50% for 90 bends and 25% for 45 bends.

Metal Hose Terminology

Annular – A hose profile that is designed so each convolution is a separate circle or ring.

Braid – Woven wire cover placed over hose which prevents elongation of the hose and permits higher working pressure.

Close Pitch – More corrugations per foot, which renders the longest fatigue life and minimum bend radius.

Constant Flexing Bend Radius – The minimum radius to which a hose can be repeatedly bent and render satisfactory flexure life.

Constant Motion – Motion that occurs on a regular cyclic basis at a constant travel.

Fittings – Parts attached to the ends of metal hose so that it can be connected to other components. Such as flanges, unions, nipples etc.

Flow Velocity – When the flow velocity exceeds 75ft./second liquid, 150 ft./second gas in braided hose, a flexible metal liner should be used.

Intermittent Motion – Motion that occurs on a regular or irregular cyclic basis.

Maximum Test Pressure – Maximum pressure hose assemble should be subject to for testing purpose. Based on 150% of the Maximum Working Pressure.

Media – Coveyant in a hose assembly such as gases, liquids, etc.

Operating Conditions – Temperature, Pressure, Media, Motion and Application involved.

Random Motion – Uncontrolled motion that occurs usually from manual handling of hose.

Rated Burst Pressure – Pressure at which hose can be expected to fail. Braid will normally fail before core burst.

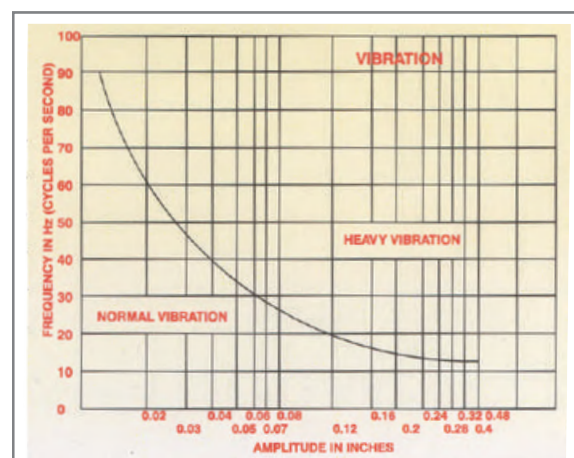
Safety Factor – Difference between working pressure and rated burst pressure.

Shock or Pulsating Pressure – Shock, pulsating or surge pressure can cause premature failure of hose.

Static Bend – Minimum center bend radius to which flexible metal hose may be bent for installation.

Vibration – High frequency, low amplitude motion.

Working Temperature – Temperature to which hose will be subjected during operation.





ADVANTAGE OF FLEXIBLE METAL HOSES

- Suitable for wide temperature range (-270C to 700C)
- Compensates for thermal expansion contraction in the piping system
- High physical strength
- Fire Resistant
- Moisture Resistance
- Longer Life
- Good Corrosion Characteristics
- Resistant to abrasion, penetration and damage
- Connects misaligned rigid piping absorbs or dampens vibration and similar equipments.
- A Flexible and quick option for rigid piping in difficult locations.

MODES OF MOVEMENTS STATIC INSTALLATIONS

Where the flexible hose is used to connect misaligned pipes and remain in static position.

OCCASIONAL FLEXING

Where the hose is required to flex occasionally, such as manually operated equipment.

Constant Flexing

When the hose is required to flex continuously, usually in moving machinery.

Vibration

High frequency, low amplitude movement e.g. On a compressor.

TABLE-1 TECHNICAL DATA

NOMINAL BORE	MINIMUM BEND RADIUS		WITHOUT BRAND		SINGLE BRAID		DOUBLE BRAID	
N.B	STATIC	FLEXING	MAX. Working pressure	TEST pressure	MAX. Working pressure	TEST pressure	MAX. Working	TEST pressure
mm	mm	mm	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²	kg/cm ²
6	25	100	4	6	100	150	160	240
10	40	150	4	6	90	135	144	216
12	50	200	3	4.5	80	120	128	192
16	50	200	3	4.5	70	105	112	168
20	70	200	2	3	64	96	102	153
25	90	200	2	3	50	75	80	120
32	110	250	1.5	2.3	40	60	64	96
40	130	250	1.5	2.3	30	45	48	72
50	175	350	1.0	1.5	28	42	44	66
65	200	410	1.0	1.5	24	36	38	57
80	205	450	1.0	1.5	18	27	28	42
100	230	560	0.8	1.2	16	24	26	39
125	280	660	0.6	0.9	12	18	20	30
150	320	815	0.6	0.9	10	15	16	24
200	435	1015	0.5	0.75	8	12	12	18

TEMPERATURE CORRECTION FACTOR

When hoses are required to work at higher temperatures, the working pressure given in Table 1 should be multiplied by the correction factor. This will determine the pressure rating of the hoses for higher temperatures.

EXAMPLE

A 50 NB hose is required for a temperature of 200°C and working pressure of 19 kg./cm. The specified pressure for 50 NB single wire braid hose as per table is 28 kg/cm². The correction factor at 20°C is 0.69. Hence the working pressure permissible is 28 x 0.69=19.32 kg/cm². This is higher than the required pressure i.e. 19kg/cm². Hence single braided hose is recommended.

TABLE II

Temp (°C)	-200	-150	-100	-50	0	20	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Corr.Factory	1.0	1.0	1.0	1.0	1.0	1.0	0.92	0.83	0.75	0.69	0.65	0.61	0.58	0.56	0.54	0.53	0.52	0.34	0.19	0.10

CALCULATION OF MINIMUM HOSE LENGTH FOR FLEXING INSTALLATIONS

STATIC FLEXING

Minimum Overall length = $L(\text{Static}) + (2 \times P)$

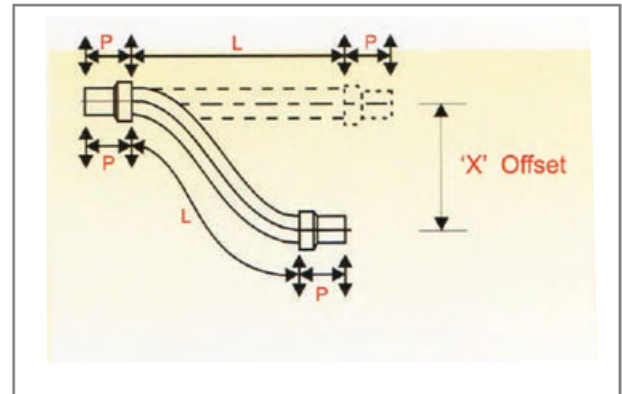
P - Dimension of end fittings.

INTERMITTENT FLEXING

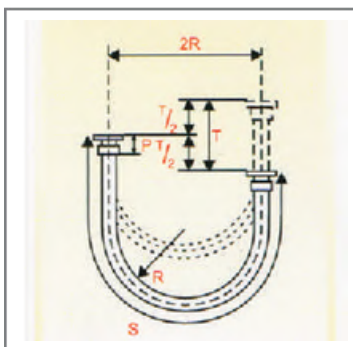
Minimum Overall Length = $L(\text{Flexing}) + (2 \times P)$

L - Dimension from chart below relative to Offset motion "X"

P - Dimension of the fittings.



LENGTH 'L' mm (FREE HOSE LENGTH)													
NOMINAL BORE (mm)	STATIC	DIMENSION 'X' mm (OFFSET MOTION)											
	0	15	25	35	50	75	100	125	150	175	200	225	250
6	85	140	180	215									
10,12	90	150	190	225	290								
20	95	170	220	255	310								
25	105	185	240	280	335	425							
32	110	205	260	305	365	450							
40	140	250	320	370	440	530	610						
50	170	300	380	440	520	630	730	800	870	940			
65	200	340	430	500	590	720	380	920	1000	1070	1130	1190	
80	215	380	500	580	680	820	940	1040	1140	1230	1310	1380	1450
100	230	405	525	610	720	875	1005	1120	1225	1325	1415	1490	1560
125	245	430	550	640	760	930	1070	1200	1310	1420	1520	1590	1670
150	280	510	650	760	910	1100	1270	1420	1560	1690	1800	1900	1990
200	320	560	710	830	990	1210	1400	1560	1720	1860	1990	2100	2210
250	360	620	780	900	1070	1320	1510	1690	1820	2010	2160	2290	2340

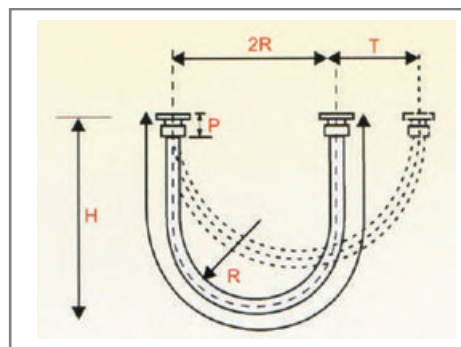


Vertical loop

(Maximum travel about fixed point)

Vertical Movement

$$S = 1.2 R + T/2 + 2P$$



Vertical loop

(Short Horizontal travel)

Horizontal Movement

$$S = 1.2 (R + T/2) + 2P$$

S = Overall Length

R = Bend Radius which must

not be less than Minimum

Shown in Table I.

P = Length over End Fitting & Ferrule.

H = Height = 3.142

Important : In loop Installations, both connections and travel should be in the same plane as the bend.

1 SN-R1AT

Construction : Tube : Oil resistant synthetic rubber.

Reinforcement : One high tensile steel wire braid.

Cover : Abrasion and weather resistant synthetic rubber.

Temperature range : -40°C to + 100°C (120°C max)



Nominal Ø mm inch	Inside Ø mm	Outside Ø mm	Working Pressure		Test Pressure Bar	Burst Pressure Bar	Minimum Band Radius mm
			Bar	PSI			
6 1/4	6.4	13.4	225	3265	540	900	100
8 5/16	7.9	15.0	215	3120	510	850	115
10 3/8	9.5	17.4	180	2610	435	720	130
12 1/2	12.7	20.6	160	2320	385	640	180
16 5/8	15.9	23.7	130	1885	315	520	200
19 3/4	19.0	27.7	105	1525	255	420	240
25 1	25.4	35.6	88	1275	210	350	300
31 1-1/4	31.8	43.5	63	915	150	250	420
38 1-1/2	38.1	50.6	50	725	120	200	500
51 2	50.8	64.0	40	580	96	160	630

2 SN-R2AT

Construction : Tube : Oil resistant synthetic rubber.

Reinforcement : Two high tensile steel wire braid.

Cover : Abrasion and weather resistant synthetic rubber.

Temperature range : -40°C to + 100°C (120°C max)



Nominal Ø mm inch	Inside Ø mm	Outside Ø mm	Working Pressure		Test Pressure Bar	Burst Pressure Bar	Minimum Band Radius mm
			Bar	PSI			
6 1/4	6.4	15.0	400	5805	960	1600	100
8 5/16	7.9	16.6	350	5080	840	1400	115
10 3/8	9.5	19.0	330	4790	795	1320	130
12 1/2	12.7	22.2	275	3990	660	1100	180
16 5/8	15.9	25.4	250	3625	600	1000	200
19 3/4	19.0	29.3	215	3120	510	850	240
25 1	25.4	38.1	165	2395	390	650	300
31 1-1/4	31.8	48.3	125	1815	300	500	420
38 1-1/2	38.1	54.6	90	1305	220	360	500
51 2	50.8	67.3	80	1160	195	320	630

DIN EN 856 4 SH

Construction : Tube : Oil resistant synthetic rubber.

Reinforcement : Four high tensile steel wire braid.

Cover : Abrasion and weather resistant synthetic rubber.

Temperature range : -40°C to + 100°C (120°C max)



Nominal Ø mm inch	Inside Ø mm	Outside Ø mm	Working Pressure		Burst Pressure Bar	Minimum Band Radius mm
			Bar	PSI		
12 1/2	12.7	24.4	425	6160	1900	230
16 5/8	15.9	28.5	450	6520	1850	250
19 3/4	19.0	32.2	420	6090	1750	280
25 1	25.4	38.1	385	5580	1750	340
31 1-1/4	31.8	45.2	350	5070	1400	460
38 1-1/2	38.1	53.5	300	4350	1250	500
51 2	50.8	68.0	250	3620	1000	700

CONCRETE END PUMP HOSE

Application : Concrete End Pump steel cord hose used for concrete placement at casting locations : it is used at the end of the pumps to distribute the concrete. The hose resists suction during the cleaning process. Usually supplied with swaged on " Full Flow" hardened couplings.

Temperature range : -40°C to + 100°C

Construction : Tube : Black, Smooth, NR/SBR rubber, that withstands the abrasive action of the concrete.

Reinforcement : Plies of 4 Steel wire cord.

Cover : Black, Smooth (Wrapped Finish) NR/SBR rubber, abrasion and weathering resistant.

Working Pressure : 85 Bar



TP TEFLON (PTFE)

Application : Dilute or concentrated acids, solvents, caustics, hot-lacquers, oxidising agents, fuels, oils, steam gases, drugs, foods, unaffected by most chemicals except molten alkali metals.

Construction : Inner Teflon (PTFE) tube with one braid of high tensile stainless steel (SS 304) wire. Also available in two or three braid for higher pressure application.



Temperature range : -54°C to + 260°C

Hose Size				Working Pressure	Min.Burst Pressure	Minimum Bend Radius
I.D.		O.D.				
Inch	mm	Inch	mm	PSI	PSI	Inch
3/16	4.8	0.3	7.6	2750	11000	2.00
1/4	6.4	0.35	8.8	2610	10440	3.00
5/16	8.0	0.43	11	2540	10160	4.00
3/8	9.5	0.48	12.1	2390	9560	5.00
1/2	12.7	0.64	16.2	1740	6960	6.60
5/8	16	0.74	19.0	1270	5080	8.00
3/4	19.0	0.91	23.2	1010	4040	9.20
1	25.4	1.15	29.2	870	3480	12.00

TC TEFLON (PTFE)

Construction : Inner (E) and overbraid of high tensile stainless steel wire (ss 304) designed to yield maximum pressure ratings. Each corrugation has a low-profile shape to promote easy cleaning.



Temperature range : -54°C to + 260°C

Hose Size				Working Pressure	Min.Burst Pressure	Minimum Bend Radius
I.D.		O.D.				
Inch	mm	Inch	mm	PSI	PSI	Inch
3/8	9.5	0.65	16.4	150	600	20
1/2	12.7	0.78	19.8	135	540	25
5/8	16.0	0.89	22.6	100	400	50
3/4	19.0	1.05	26.6	80	320	65
1	25.4	1.33	33.7	55	220	90
1.1/4	31.8	1.59	40.3	45	180	110
1.1/2	38.1	20.1	51.0	35	140	150
2	50.8	2.44	62.0	25	100	200

COMPACT JACK HOSE

Construction

Core Thermoplastic Elastomer
Reinforcement One or more Braids of Aramid Fiber with one braid of steel wire
Cover Polyurethane, Black Colour

Application

Very High Pressure Hydraulic Lines 1034 bar, Compact, high pressure, Light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluids in Hydraulic systems mainly used for Rescue & Safety equipments, torque and tension tools, jacking and re-railing equipments, high pressure pump. Also, suitable for earthmoving and material handling equipments



ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/4	6.4	0.570	14.5	15,000	1,034	43,500	3,000	1.5	38
3/8	9.5	0.775	19.7	15,000	1,034	43,500	3,000	4.0	100
1/2	12.7	0.950	24.1	15,000	1,034	36,250	2,500	7.1	180



Temperature Range: Continuous: -30°C to +70°C

Temp. not to exceed +70°C for Air and Water based fluids

MICRO BORE HOSE

Construction

Core Thermoplastic Elastomer
Reinforcement Single braid of synthetic fiber
 Single braid of Aramid fiber
Cover Polyurethane, Black Colour, Pin pricked upon request

Application

Very high pressure mini Hydraulic Lines 250 to 630 bar Suitable for hydraulic application, with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems pressure test equipments and test points, general mini hydraulic equipments, Automotive roof and boot opening system and truck's cab lifting systems



ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/8	3.2	0.256	6.5	3,600	250	14,400	1,000	0.8	20
5/64	2.0	0.197	5.0	9,100	630	27,300	1,890	0.8	20
1/8	3.2	0.236	6.0	9,100	630	27,300	1,890	1.2	30
5/32	4.0	0.315	8.0	9,100	630	27,300	1,890	1.6	40



Temperature Range:

Continuous: -40°C to +100°C

Temp. not to exceed +70°C for Air and Water based fluids

MEDIUM PRESSURE HYDRAULIC HOSE - R7

Applicable Standard: SAE 100 R7

Construction

Core Thermoplastic Elastomer
Reinforcement Single Braid of Synthetic Fiber
Cover Polyurethane, Black Colour, Pin pricked

Application

Medium Pressure Hydraulic Lines 70 to 210 bar. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Articulating & Telescopic booms and Material handling equipments. Can be used for industrial gases and other applications



ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/8	3.2	0.320	8.1	3,000	210	12,000	840	1.0	25
3/16	4.8	0.405	10.3	3,000	210	12,000	840	1.0	25
1/4	6.4	0.490	12.4	2,750	190	11,000	760	1.3	32
5/16	8.0	0.560	14.2	2,500	175	10,000	700	1.8	45
3/8	9.5	0.620	15.7	2,250	155	9,000	620	2.2	55
1/2	12.7	0.760	19.3	2,050	140	8,200	560	3.0	77
5/8	16.0	0.910	23.1	1,500	105	6,000	420	4.3	110
3/4	19.0	1.040	26.4	1,300	90	5,200	360	5.5	140
1	25.4	1.310	33.3	1,000	70	4,000	280	8.0	200
1.1/4	31.8	1.654	42.0	1,000	70	4,000	280	12.0	300

HIGH PRESSURE HYDRAULIC HOSE - R8

Applicable Standard: SAE 100 R8

Construction

Core Thermoplastic Elastomer

Reinforcement Two or more Braids of High resistance Synthetic fiber

Cover Polyurethane, Black Colour, Pin pricked anti abrasion Polyurethane

Application High Pressure Hydraulic Lines 100 to 360 bar compact, high pressure, light weight and low change in length. Suitable for hydraulic application with increased resistance to abrasion for use with petroleum, synthetic or water based fluids in Hydraulic systems. Suitable for Agricultural machinery, Earthmoving, Safety, Rescue and Material handling equipments Can be used for industrial gases and other applications. Please consult manufacturer



ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/8	3.2	0.320	8.1	5,250	360	21,000	1,440	1.0	25
3/16	4.8	0.405	10.3	5,250	360	21,000	1,440	1.0	25
1/4	6.4	0.490	12.4	5,250	360	21,000	1,440	1.3	32
5/16	8.0	0.560	14.2	4,250	290	17,000	1,160	1.8	45
3/8	9.5	0.620	15.7	4,000	280	16,000	1,120	2.2	55
1/2	12.7	0.760	19.3	3,500	245	14,000	980	3.0	77
5/8	16.0	0.910	23.1	2,750	190	11,000	760	4.3	110
3/4	19.0	1.040	26.4	2,250	155	9,000	620	5.5	140
1	25.4	1.310	33.3	2,000	140	8,000	560	8.0	200
1.1/4	31.8	1.654	42.0	1,500	100	6,000	400	14.0	350



Temperature Range : Continuous: -40°C to +100°C

Temp not to exceed +70°C for Air and Water based fluids

SEWER JET - 2500 PSI

Construction

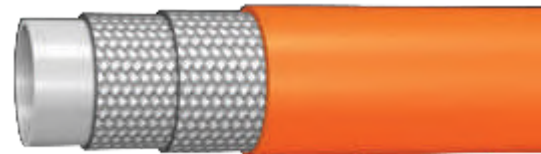
Core : Thermoplastic Elastomer

Reinforcement : One or more Braids of Synthetic Fiber

Cover : Polyurethane, Orange Colour

Application

Standard Sewer cleaning vehicles and cleaning equipments. Special construction for optimum cut and wear resistance with bonded tube and cover. Available in long lengths with a special cover resistant to microbiological degradation light weight compared to conventional rubber alternatives and increased lifetime

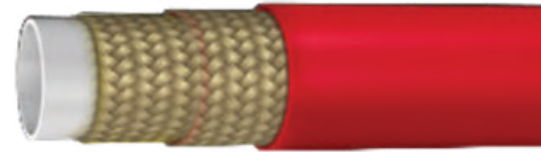


ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
3/16	4.8	0.413	10.5	2,500	175	6,250	438	1.6	40
1/4	6.4	0.505	12.8	2,500	175	6,250	438	1.6	40
3/8	9.5	0.640	16.3	2,500	175	6,250	438	2.4	60
1/2	12.7	0.810	20.6	2,500	175	6,250	438	4.0	100
5/8	16.0	1.030	26.2	2,500	175	6,250	438	4.3	110
3/4	19.0	1.150	29.2	2,500	175	6,250	438	5.0	125
1	25.4	1.450	36.8	2,500	175	6,250	438	6.3	160
1.1/4	31.8	1.800	45.7	2,500	175	6,250	438	10.0	250



Temperature Range: Continuous: -40°C to +60°C

VERY HIGH PRESSURE JACK HOSE



Construction

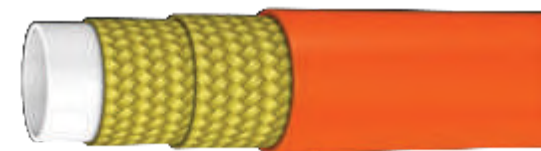
Core Thermoplastic Elastomer
Reinforcement Double braids of steel wire.
Cover Polyurethane, Red Colour
Application Very High Pressure hydraulic lines 300 to 700 bar compact, high pressure, light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluid in hydraulic systems. Mainly used for rescue, safety equipments, bolt tensioning tools and jacking & re-railing equipments also, suitable for earthmoving and material handling equipments

ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/4	6.4	0.555	14.1	10,000	700	25,000	1,750	4.0	100
3/8	9.5	0.690	17.5	10,000	700	21,750	1,500	6.0	150
1/2	12.7	0.830	21.1	7,250	500	18,125	1,250	8.0	200
3/16	4.8	0.460	11.7	10,000	700	40,000	2,800	2.0	50
1/4	6.4	0.540	13.7	10,000	700	40,000	2,800	2.8	70
3/8	9.5	0.740	18.8	10,000	700	40,000	2,800	4.0	100
1/2	12.7	0.875	22.2	10,000	700	30,000	2,080	7.0	180
3/4	19.0	1.150	29.2	5,000	350	20,000	1,400	7.5	191
1	25.4	1.440	36.6	4,350	300	17,400	1,200	10.0	254



Temperature Range: Continuous: -40°C to +100°C
Temp. not to exceed +70°C for Air and Water based fluids

VERY HIGH PRESSURE JACK HOSE - NON CONDUCTIVE



Construction

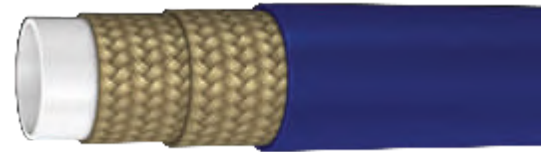
Core Thermoplastic Elastomer
Reinforcement Two or more braids of aramid fiber
Cover Polyurethane, Orange Colour
Application Non conductive Hydraulic Lines 700 bar, Compact, high pressure, light weight, high abrasion resistance and low change in length for use with petroleum, synthetic or water based fluids in Hydraulic systems. Mainly used for rescue, safety equipments, bolt tensioning tools and jacking & re-railing equipments. Mainly used in applications requiring High electrical insulation or non-conductivity

ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/8	3.2	0.358	9.1	10,000	700	40,000	2,800	1.0	25
5/32	4.0	0.375	9.6	10,000	700	40,000	2,800	1.1	27
1/4	6.4	0.590	15.0	10,000	700	40,000	2,800	1.4	35
3/8	9.5	0.735	18.7	10,000	700	40,000	2,800	2.2	55
1/2	12.7	0.920	23.4	8,000	550	32,000	2,200	4.3	110



Temperature Range: Continuous: -40°C to +100°C
Temp. not to exceed +70°C for Air and Water based fluids

PAINT SPRAY - 2W



Construction

Core

Polyamide

Reinforcement

Single layer of braided synthetic fibre and single layer of braided steel wire

Cover

Polyurethane, Blue Colour, pin pricking (Optional)

Application

High pressure airless paint spray systems for 150 to 450 bar. Suitable for applications requiring chemical resistance to solvents and aggressive fluids. Due to low permeation value of polyamide, the hose is also suitable for industrial gases

ID		OD		WP		BP		BR/r	
inch	mm	inch	mm	psi	bar	psi	bar	inch	mm
1/4	6.4	0.540	13.7	7,200	500	26,000	1,800	4.0	100
5/16	8.0	0.600	15.2	5,800	400	23,200	1,600	4.3	110
3/8	9.5	0.690	17.5	7,200	500	22,000	1,520	5.0	127



Temperature Range: Continuous: -40°C to +100°C

Temp. not to exceed +70°C for Air and Water based fluids



AIR & PNEUMATIC HOSE - PIPE (TRANSPARENT)

CONSTRUCTION & APPLICATIONS

RealOn Air & Pneumatic hose is reinforced with high tenacity yarn to meet the pressure requirements for general construction work, Road building, Tunneling metallic and Non metallic ore mines, in structural shops with chipping, Grinding and revetting application service stations for tyre inflation, for pneumatic tools use in Industries and for Heavy duty suction and delivery of water and chemicals.



SPECIFICATIONS :

Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
5	2.5	15	50/100
6	3.0	25	50/100
8	3.0	25	50/100
10	3.5	25	50/100
12	3.5	20	50/100
15	3.5	20	30/50/100
20	4.0	20	30/50/100/200
25	4.8	15	30/50/100
31	4.8	15	30/50/100
40	5.0	15	30/50/100
45	5.5	10	30/50/100
50	6.0	10	30/50/100
58	6.5	8.0	30/50
63	7.0	8.0	30/50
75	8.0	6.0	20/30

WATER HOSE-PIPE (GREEN)

CONSTRUCTION & APPLICATIONS

RealOn water hose is recommended for general water supply in Gardening, Steel Mills, Engineering works, Construction purpose, Irrigation projects and wide range of allied application. It is flexible & light in weight, also split proof compared to typical rubber tubes



SPECIFICATIONS :

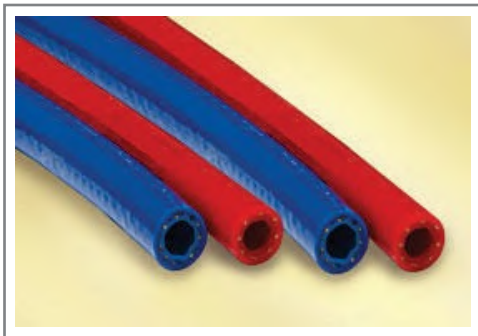
Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
12	2.0	7.0	30/50/100
20	2.5	7.0	30/50/100
25	3.5	5.0	30/50/100

WELDING HOSE - PIPE (RED & BLUE)

CONSTRUCTION & APPLICATIONS

RealOn welding hose meets all requirements for welding, brazing and cutting operations including oxygen & Acetylene welding by hand & machine. It is also used for other non-combustible gases.

RealOn Red welding hose is used for acetylene application while blue hose is used for oxygen and other non-combustible gases



SPECIFICATIONS :

Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
6	3.0	25	50/100
8	3.0	25	50/100
10	3.5	25	50/100

POWER SPRAY PIPE (YELLOW)

CONSTRUCTION & APPLICATIONS

RealOn Power spray hose is suitable for spraying water based chemicals, insecticides, fungicides, weedicides etc. In plantations, parks, vineyards, forestry and others for spraying by hand or power driven pumps.



SPECIFICATIONS :

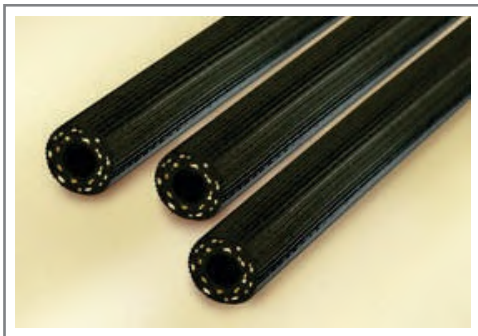
Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
8	3.5	32	30/50/100

CAR-WASHING HOSE PIPE (BLACK)

CONSTRUCTION & APPLICATIONS

RealOn Car-Washing hose are double braided & made of 100% oil resistant PVC Compound & braided with extra strong fine yarn to withstand working pressure upto 30/40 Kg/CM².

The outer surface of our hose is totally abrasion resistant which is suitable for washing vehicles in garages, service stations to withstand unavoidable oil, grease contamination.



SPECIFICATIONS :

Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
10	5.0	40	60/100
12	5.5	30	60/100

SUPER-SPRAY HOSE-PIPE (YELLOW)

CONSTRUCTION & APPLICATIONS

RealOn Super-Spray hose is suitable for high pressure spraying of water based chemicals, insecticides, fungicides, weeding etc. In plantation orchards forestry, parks, vineyards, maintenance and similar agricultural application involving spraying by hands or power driven pumps.



SPECIFICATIONS :

Size MM	Wall Thickness mm	Working Pressure (at 30°C kg/CM ²)	Standard Lengths (mtrs.)
10	5.0	40	60/100
12	5.5	30	60/100

PVC MEDIUM-DUTY SUCTION & DELIVERY HOSE - PIPE (GREEN)

CONSTRUCTION & APPLICATIONS

RealOn PVC flexible Suction & Delivery Hoses are designed incorporating a rigid PVC spiral as an integral part of the soft PVC wall. The anti-shock rigid spiral imparts superior crush resistance to the hose. Specially formulated PVC compounds develops a top grade medium duty Suction & Delivery hose for meeting the challenging service conditions in Suction & Delivery of water for irrigation purpose agriculture with electric mono block and oil engine. Also for Suction & Delivery of saline water, light acids, alkalies and other chemicals except solvents for conveying of granules or fine particles of raw materials in processing industries in general this flexible hose can work with superior efficiency and offers more service life compared to rubber suction and delivery hoses.

ADVANTAGES

- **Light weight** : Often only 1/4 that of Rubber Hose has which makes it easy to carry and install.
- **Flexibility** : The flexibility of hose is retained for many years, It can be bent as desired. No kinking or bulging even in the most severe working conditions.
- **Resistance** : It shows strong resistance in high pressure and most of the chemicals, light acids, alkalies excepting solvents. Ideal for high pressure suction & delivery of water.
- **Weather proof** : Easily Installed even to non-standard couplings.
- **Smooth Bore** : Allows fast flow.



SPECIFICATIONS :

Nominal Size		Diameter		Bending Radius mm	Pressure (at 30° c)		Standard Lengths (mtrs.)
Inches	MM	ID mm	OD MM		Working Pressure (kg/CM ²)	Bursting kg/CM ²	
3/4	20	19.0*	23.6**	45	7.0	24	30/50
1	25	25.4*	30.0**	55	7.0	20	30/50
1 1/4	30	31.8*	36.8**	75	6.5	20	30/50
1 1/2	40	38.0*	43.3**	95	5.0	16	30/50
2	50	50.8*	57.8***	122	4.0	16	30/45/50
2 1/2	65	63.5*	72.0***	160	4.0	16	30/45/50
3	75	76.2*	85.0***	272	3.5	15	30/36
4	100	101.2*	112.2****	290	3.5	11	15/18/30

Recommended maximum working temperature : 60/70°C

Variation in ID/OD : { * = ± 0.5 } { ** = ± 1.0 } { *** = ± 1.5 } { **** = + 2.0 }

PVC HEAVY-DUTY SUCTION & DELIVERY HOSE - PIPE (Grey)

CONSTRUCTION & APPLICATIONS

RealOn PVC flexible Heavy-Duty Suction & Delivery Hoses are designed incorporating a rigid PVC spiral as an integral part of the soft PVC wall. The anti-shock rigid spiral imparts superior crush resistance to the hose. Specially formulated PVC compounds develop a top grade Heavy-Duty Suction & Delivery Hose for meeting the challenging service conditions. It is used in coal and Mineral mines, Stone & Lime quarries, Shipping, Sewage disposal, Aqua culture, Paper mills, Cement conveying, Chemical industries, Petrochemicals & Oil exploration, Fire fighting equipment, Constructional engineering, general industrial service etc.

ADVANTAGES

- **Resistance** : It shows strong resistance to high pressure and external impacts and can easily withstand absolute vacuum too.
- **Flexibility** : No question of kinking or crushing even while in severe conditions and the hose is totally abrasion resistant.
- **Light Weight** : Our Heavy-Duty hoses are more efficient & lighter in weight than conventional multilayer and wire reinforced ply type rubber hoses which makes the handling much easier.
- **Weather Proof** : Resistant to sun, ozone and weather.
- **Smooth Bore** : Smooth inside surface assures a high flow rate.



SPECIFICATIONS :

Nominal Size		Diameter		Bending Radius mm	Pressure (at 30° c)		Standard Lengths (mtrs.)
Inches	MM	ID mm	OD MM		Working Pressure (kg/CM2)	Bursting kg/CM2	
1	25	25.4*	31.5*	48	8.0	25	30
1 1/4	30	31.8*	38.8*	68	7.0	21	30
1 1/2	40	38.0*	46.3***	70	5.5	18	30
2	50	50.8*	60.8***	100	4.5	18	30
2 1/2	65	63.5*	74.5***	120	4.5	18	30
3	75	76.2**	87.2***	155	4.5	18	30
4	100	101.2***	114.2****	213	4.0	14	30
5	125	127.0***	141.0****	230	3.0	10	15/18
6	150	152.4***	169.4****	375	2.5	9.0	15/18
8	200	203.2***	224.4***	600	2.5	8.0	4.5/6
10	250	254.2****	284.0****	1000	2.5	8.0	4.5/6
12	300	300.0****	312.2****	1000	2.5	8.0	4.5/6

Recommended maximum working temperature : 60/70°C

Variation in ID/OD : { * = ± 0.5 } { ** = ± 1.0 } { *** = ± 1.5 } { **** = ± 2.0 }

PVC FLEXIBLE OIL HOSE - PIPE (BLUE)

CONSTRUCTION & APPLICATIONS

RealOn PVC Oil Hose is secured by proper placement of hard spiral of rigid PVC in the soft wall which imparts strength as well as required flexibility to the entire hose length. It is recommended for conveying Diesel fuels, kerosene, liquid petroleum products, lubricating oil, mineral, oils, light oils, transformer etc.

ADVANTAGES

- **Flexibility :** Specially designed to have greater flexibility than rubber, hose can be bend as desired in practical uses. It has unique properties of flexibility which is maintained throughout its long duration.
- **Resistant to oil and other chemicals :** Our hose is made from special Oil resistant PVC compound that's why it is preferred by quality conscious customers.
- **Ageing :** Unlike rubber hoses it will not be cracked nor aged and hence, our oil hoses are durable for a very long period and proves economical.
- **Resistance to absolute vacuum :** This proves the exact suitability for suction & delivery applications.
- **Easy to handle :** Our oil hose is unbelievably lighter in weight then compared to the commercial Rubber products which make the handling much easier.
- **Quite tough :** Tough to resist distortion under impact & crush loads during service.
- **High flow rate :** Smooth inside surface results in quick conveyance of fluids. This means minimum friction loss saves higher energy and gives high flow rate.



SPECIFICATIONS :

Nominal Size		Diameter		Bending Radius mm	Pressure (at 30° c)		Standard Lengths (mtrs.)
Inches	MM	ID mm	OD MM		Working Pressure (kg/CM ²)	Bursting kg/CM ²	
1	25	25.4*	31.5*	48	8.0	22	30
1 ¼	30	31.8*	39.0*	68	7.0	21	30
1 ½	40	38.1*	46.4**	70	5.5	18	30
2	50	50.8*	60.8***	100	4.5	18	30
2 ½	65	63.5*	74.5***	120	4.5	18	30
3	75	76.2*	87.2***	155	4.5	18	30
4	100	101.2***	114.2****	213	4.0	14	30

Recommended maximum working temperature : 60/70°C

Variation in ID/OD : { * = ± 0.5 } { ** = ± 1.0 } { *** = ± 1.5 } { **** = ± 2.0 }

PVC FLEXIBLE DUCT HOSE - PIPE (GREY / TRANSPARENT)

STRUCTURE

Our Duct hose has a specially compounded rigid PVC reinforcement which is helically wound and inseparably fused to the soft inner walls. By its unique construction, ducting results in a thin, very smooth wall, being almost completely protected from any possible crushing.

FEATURES

- **Light weight & flexible :** The perfect reinforcement of rigid PVC with soft PVC gives it both, strength and flexibility. It is tough, light so easy to carry and handle thus increases working efficiency.
- **Resistance :** Has strong resistance to the most of the chemicals, Acids and alkalies and also abrasion resistant with the aid of rigid outer reinforcement which can effectively handle dirt, fiber chip etc.
- **Smooth flow :** Smooth inside surface helps in reducing the frictional resistance resulting in smooth & quick conveyance of material, thereby increasing the flow volume saving electric energy of equipment.
- **Economical to install:** It saves installation time and money. It is easily fitted by securing with a band of wire. Any suitable end fittings can be cut in to desired lengths instantly and installed.

APPLICATIONS

- Cold or Warm air installations of various kinds.
- Removing fumes from factories, fuel tanks and underground installations.
- Dust collection from various machines.
- Discharge of welding gas at the welding job site.
- Air cleaner hose for vehicles and heavy equipments.
- For dung cart.
- Conveying of granules or fine particles of raw material in processing industries
- In domestic vacuum cleaning equipments.
- In washing machines.
- For carding machines and draw forms in Textile Industry.
- Transportation of wheat and other cereals in the course of processing.



SPECIFICATIONS :

Nominal Size		Diameter		Bending Radius mm	Standard Lengths (mtrs.)
Inches	MM	ID mm	OD MM		
5/8	16	16	22	22	30
3/4	22	21	28.6	35	30
1	25	25.4	32.1	45	30
1 1/4	30	31.8	38.6	50	30
1 1/2	40	38	45	55	30
2	50	50.8	57.2	65	30
2 1/2	65	63.5	71.5	75	30
3	75	76.2	83.5	95	30
4	100	101.2	108.9	125	30
5	125	127	135.2	140	15
6	150	152.4	161.1	205	15
8	200	204	214.4	270	15
10	250	254	265	370	10
12	300	305	320	370	10

60mm, 80mm, 90mm, 110mm, 140mm, 160mm, 225mm sizes are also available on request

PVC FLEXIBLE NON-TOXIC HOSE - PIPE (TRANSPARENT)

CONSTRUCTION & APPLICATIONS

Our Non-Toxic hose is made of special Non-Toxic PVC Compound which is safely recommended for conveying food products, beverages, arreated drinks, powdered cereals and their by products etc

ADVANTAGES

- The inside surface of our hose is smooth and it will make cleaning of hose very easy after every use.
- As the hose is clear transparent, you can make sure that there is no left over particle of dirt on the inside wall after cleaning.
- Visible flow. Good resistance to oil and other chemicals.
- Light in weight.
- Tough enough to resist distortion under impact and crush loads during service.
- Resistance to absolute vacuum assures ideal suitability for suction and delivery application.



SPECIFICATIONS :

Nominal Size		Diameter		Bending Radius mm	Pressure (at 30° c)		Standard Lengths (mtrs.)
Inches	MM	ID mm	OD MM		Working Pressure (kg/CM ²)	Bursting kg/CM ²	
1	25	25.4*	30.0**	55	7.0	20.0	30
1 ¹ / ₄	30	31.8*	36.8**	75	6.5	20.0	30
1 ¹ / ₂	40	38.0*	43.3**	95	5.0	16.0	30
2	50	50.8*	57.8***	122	4.0	16.0	30
2 ¹ / ₂	65	63.5*	72.0***	160	4.0	16.0	30
3	75	76.2*	85.0***	272	3.5	15.0	30
4	100	101.2***	112.2****	290	3.5	11.0	30

Recommended maximum working temperature : 60/70°C

Variation in ID/OD : { * = ± 0.5 } { ** = ± 1.0 } { *** = ± 1.5 } { **** = ± 2.0 }

TWO PLY FIBERGLASS-SILICONE COATED HOSE PIPE



Specification

Size : 19mm to 305mm and above (ID)
Std. Length : 4 Mtr. (standard)
Color : Brick Red
Temp. Range : -75° to 1200° F & above
Options : Size as per your requirement.

Features

Double ply silicone coated hose pipe. The standard Hose Pipe for high temperature air flow and fume removal. The internal ply provides a smoother bore for maximum air flow, less friction loss. UV and weather resistant.

Application

Tiles & Ceramic Machinery(Roller Kiln), Plastics Machinery (Dehumidified Air Dryer, Hopper Dryer, Lamination, Multi Layer film, Converting, Printing) Pre-Heater, Ventilation, Computer Cooling, Direct Heaters, Automotive, Vehicles Exhaust, Air Craft, Air Conditioning, Hot Air Conveying System & All Industrial & High/Low temperature.

THUNDER HOSE



Specification

Size : 12mm ID to 150mm ID
Std. Length : 30 / 50 / 100 Mtrs
Color : Transparent
Temp. Range : -10° to 70°
Options : High Temperature up to 150° available on request.

Features

This soft PVC hose is transparent & nontoxic which is manufacture by rich soft PVC Compound & it is reinforced by steel wire spring. it has excellent clarity, small winding radius, great ability of minus pressure resistance, Resistance to inside pressure reduction & no distortion of outer shock.

Application

Widely used as a suction hose of vacuum pressure & vacuum forming machine. Widely used in food stuff & chemical industry, Drawing & conveying water, oil, gas, powder & granules in factory, agriculture, beverages.

PU HOSES



Specification

Size : 32mm to 350mm (ID)
Std. Length : 10 Mtr., 15Mtr., 20 Mtr.
Color : Transparent
Temp. Range : -40° to 90°c (+125°c short term)
Options : Size as per your requirement.

Features

PU HOSE is made of abrasion resistant Polyurethane with copper plated spring steel spiral embedded into wall. Very light and extremely flexible hose with good tensile and abrasion strengths and ultimate elongation. Free of softeners, halogen free, physiological safe, cadmium free and excellent elasticity .Hose will also remain flexible below 0°c.

Application

Aspiration of dust, wood flour, shavings, granulates, powder, gases and fumes, Textiles, Plastic, Printing, Ceramic, Furniture and wood industry, shavings exhaust, chemical industry, paint industry, oil fog exhaust, machine manufacturing. Universal hose for transportation of light solids and for air and gas transportation. Being Food Grade material can use in food & Pharmaceuticals industries.

FABRIC HOSES



Specification

Product Construction	:	PVC Coated Tarpaulin , Spring Steel Wire
Adhesion	:	Special Thermal Fusion Part
Temperature Range	:	-20°C — 120°C Pressure 350mmWG(3432Pa)
Air Velocity	:	35M/sec
Size Range	:	50mm — 1000mm(ID)
Standard Length	:	10M
Applications	:	Fume control for gas boiler, Dust collection in building Tunnel, Air control applications

Features

- Vibration resistant
- Minimum weight
- Tearing resistant
- Highly flexible and compressible up to 10:1
- High tensile strength
- Very small bending radius

Application

As suction and transport hose ideal for

- Air conditioning and ventilation of fumes, light duty dust extraction, and air movement.
- As a flexible connection between grilles diffusers, fans and other air movement units.
- Suction of engine exhaust gas
- Exhaust gas technique, engine construction, engine warming, aircraft construction and military construction
- For flue gas extraction, blast furnace exhaust and engine test bench

TPR HOSE PIPE (THERMO PLAST RUBBER)

TPR Hose made from EPDM/PP with PP Coated Steel Spring Wire reinforced which is the substitute of Neoprene Hose. It is quiet competitive without compromising your requirement. It is light & highly Flexible Hose, Temperature stable with good resistance against ozone. It has also more strength and also capable of eletro-static discharge.



Features

Color	:	Black
Temperature	:	-40° C to + 135° C
Sizes Available	:	From 16mm to 200mm. (ID)
Steady with high temperature, Good resistance to chemical substances and UV rays, High tensile strength		

Application

- Air intake for Air compressor and engine.
- For gaseous media such as vapors & smoke
- Excellent flex fatigue resistance
- Light duty material handling
- Hot exhaust extraction
- Medium duty chemical fume removal
- For steam extraction and also for hot & cold Air
- Also can use as dust collector & conveying of powder etc.

SILICONE COATED SLEEVE



Knitted High bulk fiberglass sleeve can withstand repeated exposures to molten steel, molten aluminum and molten glass upto 3000° F (1650° C)

1) Withstands intense radiant heat and flame : Fiberglass sleeve will withstand continuous exposure to 500° F(260° C); UP TO 2000° F(1090° C) FOR 15-20 MINUTES ; AND UP TO 3000°F(1650°C) FOR 15-30 seconds. When exposed to flame, the silicone rubber transforms into a crust, creating a protective SiO2 refractory layer. Fiberglass sleeve is constructed from high bulk glass fiber knitted sleeve. Excellent modulus of elasticity makes it an excellent choice for bundling hoses, tubes and cables in a variety of hostile environments.

2) Sheds splash immediately

Fiberglass sleeve withstands repeated exposures to molten steel, molten aluminum and molten glass upto 3000°F(1650°C). The heavy coating of our proprietary iron oxide red silicone rubber compound sheds molten metal splash immediately, so very little heat transfer occurs.

3) Protect your personnel and cut your energy loss

Fiberglass sleeve insulation properties provide personnel with effective protection again burns from hot hoses and flexible steam lines, while reducing heat energy losses.

Sizes :6 mm to 150 mm & above



OIL COMPOSITE HOSES

Description : Composite hoses from 1" to 10" made from polypropylene (PP) fabrics and PP films with an abrasion resistant PVC coated Terylene weave fabric cover reinforced with inner wire and outer wire can be Galvanized Mild Steel (GI) / Aluminum / SS316. Inner layer is Polypropylene (PP) Fabric.

Radcoflex Brand	Inner Wire	Outer Wire	Inner Layer	Max WP Psi / Bar
TRANSFUEL	GI	GI	PP Fabric	100 / 7
TRANSOIL	GI	GI	PP Fabric	150 / 10
TRANSFUEL L	Aluminum	GI	PP Fabric	150 / 10
AV FUEL	SS316	GI	PP Fabric	150 / 10

Temperature : Depending on the conveyant -30°C to +80°C.

Manufacture : Complies with EN 13765 Type 1 or 2.

Minimum burst Pressure : 4 times Working Pressure (safety factor 4:1)

Principle Applications:

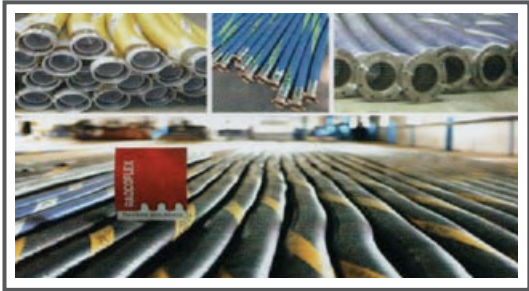
Oil composite hoses are especially suitable for the suction and discharge transfer of petroleum products in in-plant and light duty dockside applications. It is an excellent hose for conveying tallow and high aromatic hydrocarbons. Electrical continuity is maintained by the hose wires being securely connected to the fittings.

Principle Applications for transfer of :

- » Petroleum Products by road by road, rail tankers & loading Gantries
- » In-Plant application
- » Bottom loading application
- » Bunkering application
- » Conveying high aromatic hydrocarbons
- » Dock side & ship to shore application

Advantages of Radcoflex Composite hose

- » Very Flexible
- » Long Lasting
- » Available with variable fittings
- » Light Weight
- » Factory Fitted Fittings
- » Available with Teflon lined flanges



OIL COMPOSITE HOSES - HEAVY DUTY DESIGN

Description : Composite hose made from heavy duty polypropylene fabrics and films with a double layer of abrasion resistant PVC coated fabric cover, reinforced with internal and external wire helixes. The hose contains a barrier layer for 100% aromatic hydrocarbons. The hose can be covered with rope lagging for external protection if required. Details of hose construction are given below.

Radcoflex Brand	Inner Wire	Outer Wire	Inner Layer	Max WP Psi / Bar
TRANSDOCK	GI	GI	PP Fabric	200 / 14
TRANSMARINE	GI	GI	PP Fabric	200 / 14

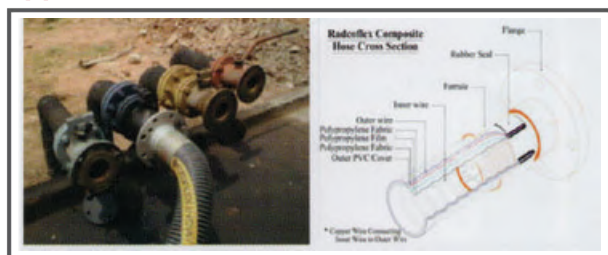
Temperature : Depending on the conveyant -30°C to +80°C.
 Colour Code : Blue Outer Cover
 Manufacture : Complies with EN 13765 Type 3
 Minimum burst Pressure : 4 times Working Pressure for Transdock (4:1)
 5 times Working Pressure for Transmarine (5:1)

Principle Applications:

Dock & Marine hoses are suitable for the heavy-duty suction and discharge transfer of petroleum products in road and rail tanker, dockside and ship to shore applications. Transdock-S has the added suitability for applications involving corrosive atmospheres and splash.

Note : In general, composite hose is not recommended for conveying products with a fluid viscosity more than 400cST (400MM² / Sec) and a flow velocity in excess of 7mtr/sec (23 feet/sec).

Application Photos



PTFE - Composite hoses

Description : Composite hoses from 1 to 10 with an inner PTFE film and intermediate layers of polypropylene (PP) fabrics and films with an abrasion resistant PVC coated nylon fabric cover reinforced with inner wire and outer wire helices. Details of hose construction are given below :

Radcoflex Brand	Inner Wire	Outer Wire	Inner Layer	Max WP Psi / Bar
SOLFLON	SS 316	GI	PTFE	150 / 10
SOLFLON S	SS 316	SS 316	PTFE	150 / 10
SOLFLON P	PPP Coated	GI / SS	PTFE	150 / 10
CHEMDOCK F	SS 316	GI	PTFE	200 / 14

Temperature : Depending on the conveyant -30°C to + 120°C.
 Colour Code : Red Outer Cover
 Manufacture : Complies with EN 13765 Type 2 or 3
 Safety Factor : 4:1



Principle Applications:

Solflon is suitable for the transfer of the most aggressive chemicals and searching solvents. The PTFE liner has a low co-efficient of friction making the hose also suitable for the conveyance of high viscosity products such as paint. Electrical continuity is maintained by the hose wires being securely connected to the fittings.

Principle Applications for transfer of :

- » Ship to shore loading & unloading
- » Plant application
- » Transfer of chemicals, solvents, acids and alkalines.
- » Transfer of high viscosity products such as paint etc.

Chemical Compatibility :

Acetic Acid	Copper Sulphide	Phenol
Benzol Acid	Ethanol	Phosphoric Acid 54%
Boric Acid	Ethyl Benzene	Sodium Hydroxide
Bromine	Ethylene	Solvents
Calcium Hydroxide	Fatty Alcohol	Styrene Monomer
Aviation Fuel	Ferrous Sulphate	Sulphuric acid 98%
Caustic Soda	Glucose	Toluene
Chromic acid	Hcl 33%	White Oil, Black Oil
Citric Acid	Hydro Peroxide	Etc.

Advantages of Radcoflex Composite Hose

- » Very Flexible
- » Long Lasting
- » Available with variable fittings
- » light weight
- » Factory Fitted Fittings
- » Available with Teflon lined flanges.

Range of End Fittings



Chemical - Composite Hoses

Description : Composite hoses from 1 to 10 made form polypropylene (PP) fabrics and films with an abrasion resistant PVC coated nylon fabric cover reinforced with inner wire and outer wire helixes. Details of hose construction are given below :



Radcoflex Brand	Inner Wire	Outer Wire	Inner Layer	Max WP Psi / Bar
TRANSCHEM	PP Coated	GI	PP Fabric	150 / 10
TRANSCHEM S	PP Coated	SS 316	PP Fabric	150 / 10
CHEMDOCK P	PP Coated	GI / SS	PP Fabric	200 / 14
CHEMDOCK	SS 316	GI	PP Fabric	200 / 14

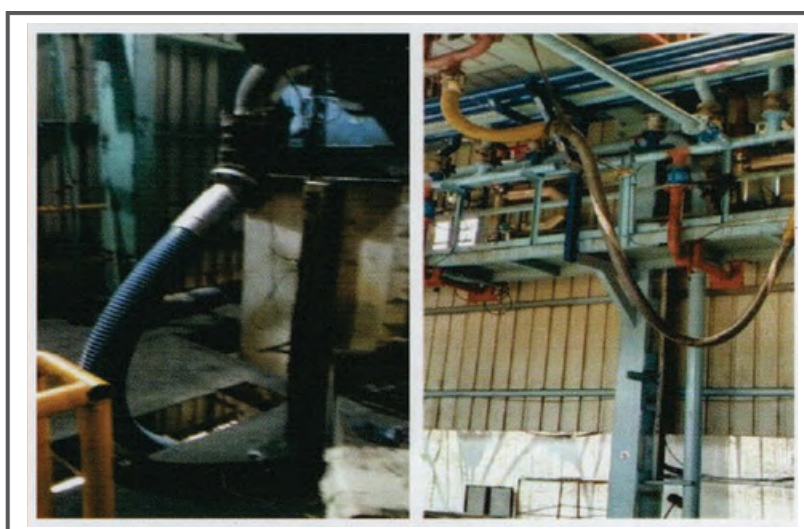
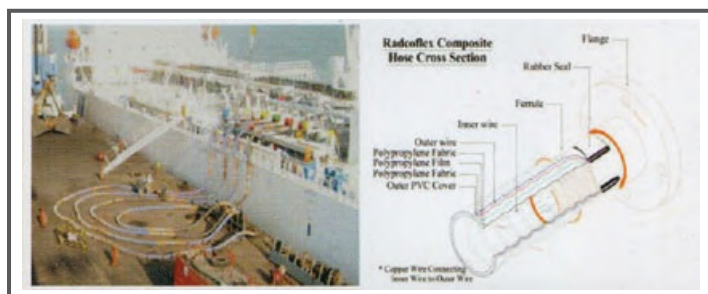
Temperature : Depending on the conveyant -30°C to + 80°C.
 Colour Code : Grey Outer Cover
 Manufacture : Complies with EN 13765 Type 2 or 3
 Safety Factor : 4:1

Principle Applications:

Transchem is suitable for the transfer of chemicals, acids and alkalines.

Note : Electrical continuity can be maintained for this hose by barring the inner wire (ie. removing the PP coating) near the fitting to allow positive connection of the wire to the fitting. This process however may introduce a potential corrosion path to the inner wire.

Application Photos



WORM DRIVE HOSE CLAMPS

Specification : BS 5315 : 1991, IS 4762 : 2002 and DIN 3017

MATERIAL : The Material used in Manufacture of WORM DRIVE HOSE CLAMPS shall be selected at the manufacturer's discretion provided that the finished clamps are capable of passing the tests specified.

MANUFACTURE : Screw : Shall be held captive in the Clamp Housing.

Band : Band shall have a thread form commencing at the free end extending for length sufficient to enable the clamp to be tightened on to the smallest diameter of component within the working range for which it is designed.

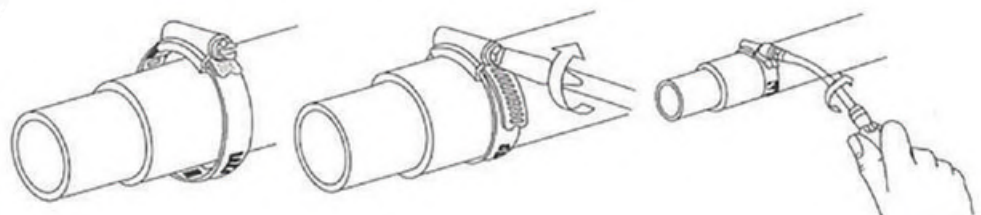
HOUSING : The housing shall not be readily removable from the band.

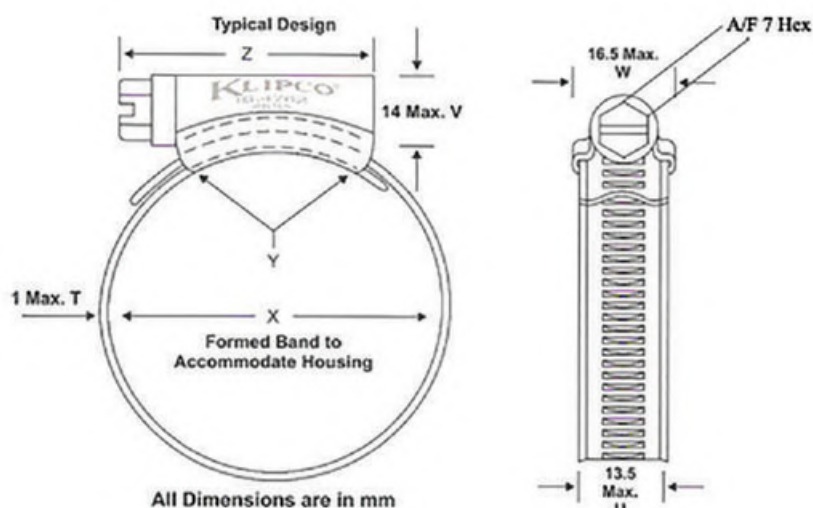
FINISH : Clamp shall be smooth and free from burrs and sharp edges. Clamp Produced other than from corrosion resistant material (Stainless Steel) shall be protected from electroplating coating of zinc-as per Fe Zn12 of IS: 1573/1970 & BS: 1706-Zn3.

TESTS : Free running Torque Test : for this purpose the torque required to move the screw in either direction shall not exceed 1.5Nm i.e. (13.3 ibf / In or 0.16 kgf / m)

Torque Test : The Clamp shall be tightened to 75% of the Torque Load, as shown in table. On release, Clamp shall reveal no sign of permanent distortion of the housing, nor efficient functioning of the clamp size. The Clamp shall then be retightened until permanent distortion or failure occurs, at this point torque load shall be in excess of the value shown in table.

Hydraulic Pressure Test : The fluid used for the test shall be water at room temperature. Torque applied shall not be more than 75%, of the value. Pressure shall be applied gradually from an external source until leakage or other failure occurs, at which stage the pressure shall be not less than appropriate value specified.





DIMENSIONS OF CLAMPS

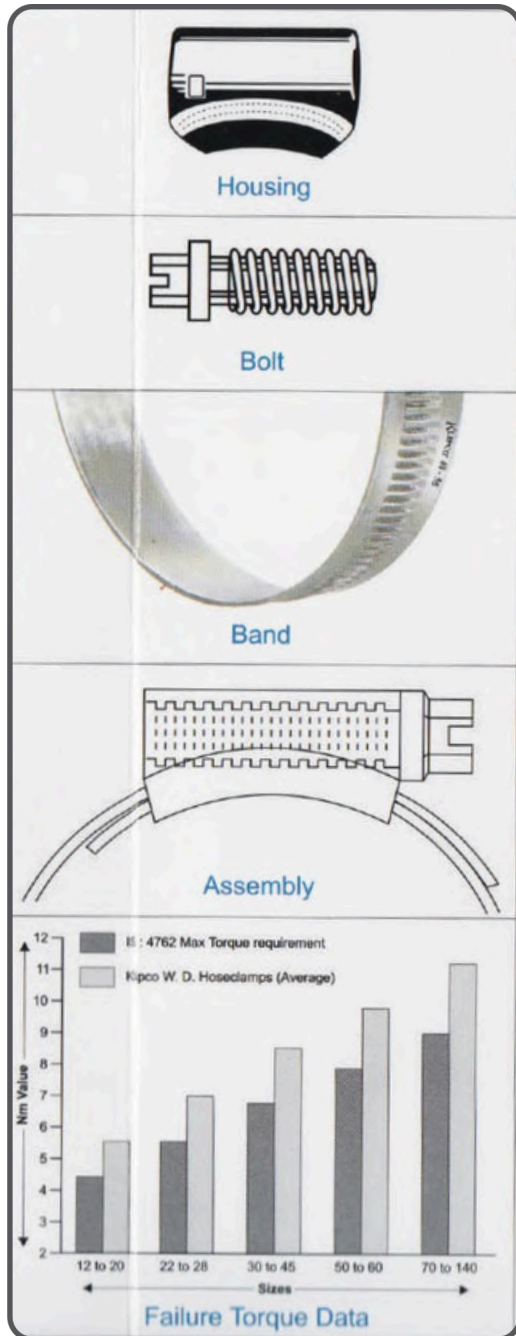
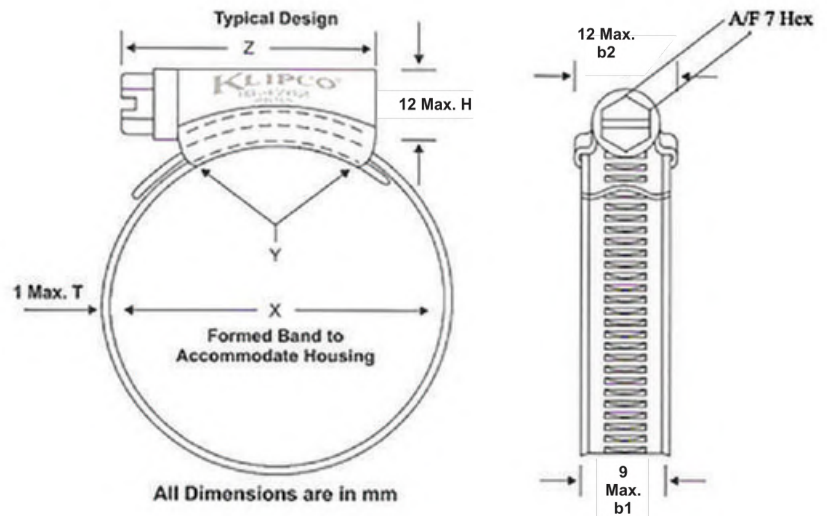
IS 4762 & BS 5315

IS:4762 Sizes	Klipco Sizes	BS:5315 Sizes	X Working Range		Z Max.	Y Max.	Fitment Torque Max. Nm	Failure Torque Nm	Hydraulic Pressure MPa					
12	000	12	9.5	12	25	14	3.4	4.5	1.4					
16	00M	16	11	16										
20	00	20	13	20		20	4.2	5.6						
22	0	22	16	22										
25	25A	25	18	25	30	25			0.7					
-	0X	-	20	28										
30	1A	30	22	30		28	5.1	6.8						
35	35A	35	25	35										
-	1	-	28	38	33		28	6.8	9.0	0.3				
40	1X	40	30	40										
45	45A	45	35	45		33					28	6.8	9.0	0.3
50	2A	50	35	50										
-	2	55	40	55										
60	2X	60	45	60										
65	65A	65	50	65	33	28	6.8	9.0	0.3					
70	3	70	55	70										
-	75A	-	60	75A										
80	80	80	60	80										
90	4	90	70	90	33	28	6.8	9.0	0.3					
100	4X	100	85	100										
110	110A	110	90	110										
115	115A	115	95	115										
120	5	120	100	120	33	28	6.8	9.0	0.3					
130	130A	130	110	130										
140	6	140	120	140										
150	6X	-	130	150										
160	160A	-	140	160	The larger sizes test is based on housing in a fixture, band attached to tensile fixture, to screw torque to 6.8 Nm & band tension to 1.5 KN upto 7.9 Nm without distortion or failure.									

The larger sizes test is based on housing in a fixture, band attached to tensile fixture, to screw torque to 6.8 Nm & band tension to 1.5 KN upto 7.9 Nm without distortion or failure.

LARGE RANGE

Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose		Klipco Size	Outside Diameter of Hose	
7	150	175	10	225	250	13	300	325	16	375	400
8	175	200	11	250	275	14	325	350	17	400	425
9	200	225	12	275	300	15	350	375	18	425	450

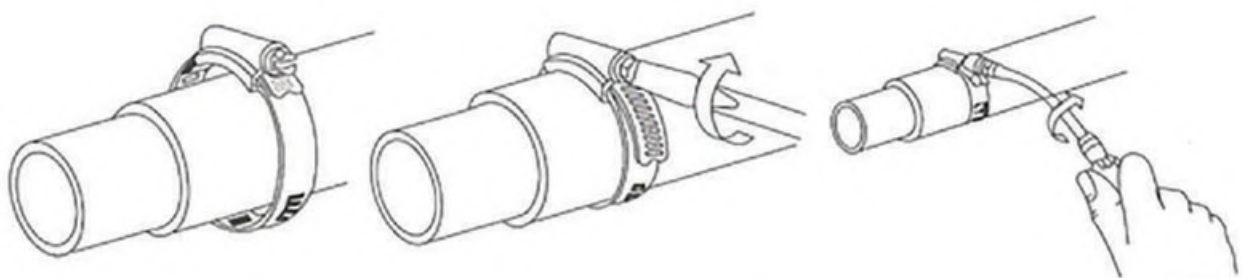


DIMENSIONS OF CLAMPS

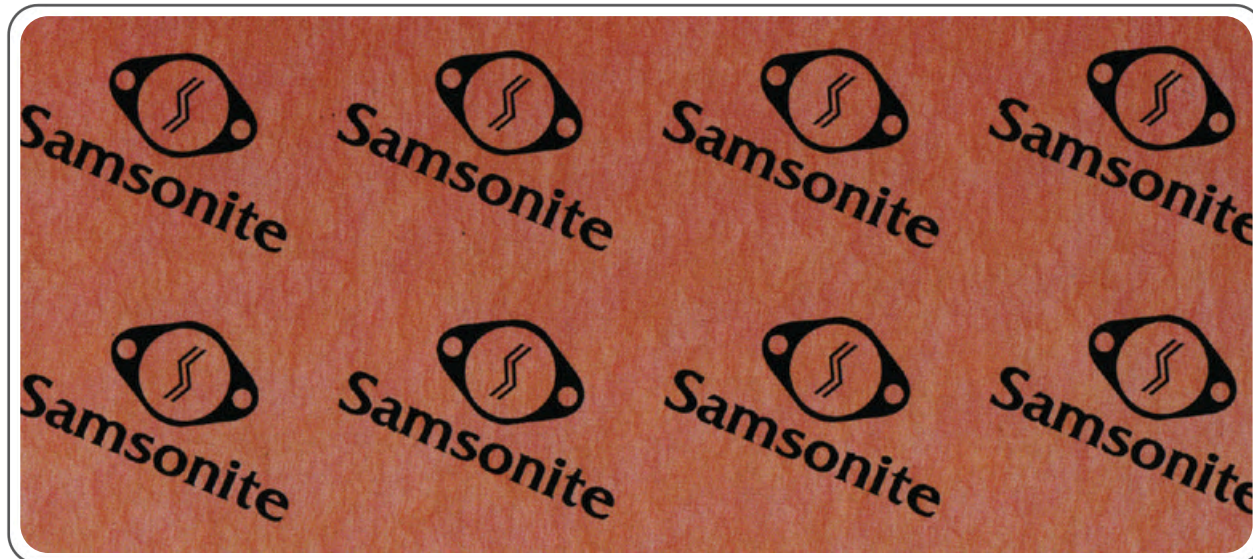
DIN 3017

DIN 3017 Sizes	Klipco Sizes	Working Range		Z	Static Torque Material Nm Max.	
		Min.	Max.		W1	W2, W3, W4, W5
12	000	8.0	12	18	2.5	3
16	00M	10	16			
20	00	12	20		3.0	3.5
25	25A	16	25			
32	1A	20	32	24	3.5	4
40	1X	25	40			
50	2A	32	50			
60	2X	40	60			
70	3	50	70	26	3.5	4
80	3X	60	80			
90	4	70	90			
100	4X	90	100			
110	110A	90	110	26	3.5	4
120	5	100	120			
130	130A	110	130			
140	6	120	140			
150	6X	130	150	26	3.5	4
160	160A	140	160			

Note : The range is for light duty (L) application only.



Compressed Asbestos Fibre Jointing Sheets



Description : **SAMSONITE** Compressed Fibre jointing is a consistently uniform and resilient product. A price worthy quality of dependable performance, plus adaptability to many sealing requirements make this **JOINTING** the **ECONOMICAL** sheet packing of plant engineers and Maintenance men.

SAMSONITE ECONO Jointings are developed for general purpose applications and this quality is applicable for use against low pressure steam, water, gases and alkalies.

SAMSONITE ECONO METALLIC JOINTINGS SHEETS with wire gauge insertion is also supplied with antistick graphite coating in 1525mm width x 1650mm to 5000 mm length

SAMSONITE ECONO L.P. STEAM

Identity color	Red or Graphited	
Nominal Sheet Thickness	0.4, 0.8, 1.5, 3.0, 5.0 mm	
Sheet Size Approx.	Width	Length
Tolerance	1525mm x 1650mm to 5000mm	

TECHNICAL DATA

Recommend Maximum Temperature	350 C
Recommend Maximum Pressure	20 kg./sq cm.
Specification Compliance	IS 2712-1979 Grade W/3 IS 2712-1971 Grade C

Spitmaan Style 20 Steam



Description: Compressed Asbestos Fibre Jointing is a consistently uniform and resilient product. A price worthy quality of dependable performance, plus adaptability to many sealing requirements makes this 'STEAM' jointing the choice sheet packing or of Plant Engineers and maintenance men.

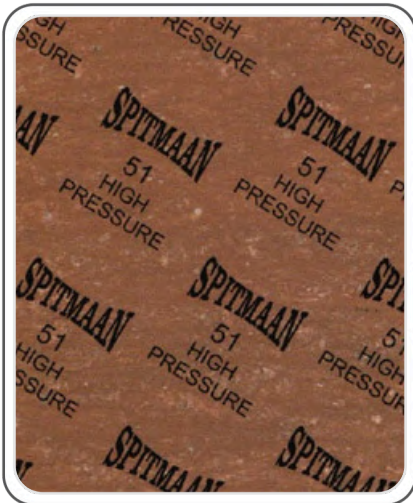
Spitmaan Style 20 Jointings are developed for general purpose applications and this quality is applicable to a wide range of duties with less severe working conditions of temperature and pressure.

Identity Colour : Red or Graphited

Technical Data

Recommended Maximum Temperature : 380°C.
 Recommended Maximum Pressure : 35 kg/sq.cm.
 Specification Compliance : IS 2712 - 1998 Grade W/3
 IS 2712 - 1971 Grade C.

Spitmaan Style 51 High Pressure



Description: Manufactured from selected Asbestos Fibre and bonded with high grade binder compound, this product has a wide range of applications in the industrial field. Brown / Grey or Graphite finish.

Services: Recommended against steam, neutral non flammable gases, dyes alkalies, fats, oils, alcohols, motor fuels and such other engineering services which do not warrant the use of as High Grade material such as SPITMAAN Style 54 super.

Identity Colour: Brown / Gray or Graphited

Technical Data

Recommended Maximum Temperature : 440°C.
 Recommended Maximum Pressure : 80 kg/cm².
 Specification Compliance : IS 2712 - 1998
 IS 2712 - 1979 Grade W/2
 IS 2712 - 1971 Grade B/S
 BS 2815 - 1973 Grade B

Spitmaan Style 54 Super



Description: Manufactured from excellent quality of Chrysotile Asbestos Fibre and raw materials, the blend being intimately mixed with heat resisting rubber compounds under special process to ensure maximum stability against high pressure and temperatures.

Services: Though primarily a super heated steam jointing it is also recommended against saturated steam, oxygen, petroleum distillates, oils and fats, fuels, internal combustion engines, hydrocarbons, alcohols, solvent, dyes, etc. It is popularly used in MARINE ENGINES, electricity generating sets etc.

Identity Colour : Yellow / Gray or Graphited

Technical Data

Recommended Maximum Temperature : 550°C.
 Recommended Maximum Pressure : 150 kg/cm².
 Specification Compliance : IS 2712 - 1998
 IS 2712 - 1979 Grade W/1
 IS 2712 - 1971 Grade A/S
 BS 2815 - 1973 Grade A

Spitmaan Style 20 Metallic



Description: A compressed Asbestos fibre jointing with a gauze insertion supplied with graphite finish. Used for general purpose application where conditions of temperature and pressure are not too severe.

Identity Colour : Graphited Black

Technical Data

Recommended Maximum Temperature : 415°C.
Recommended Maximum Pressure : 40 kg/cm².

Spitmaan Style 51 Metallic



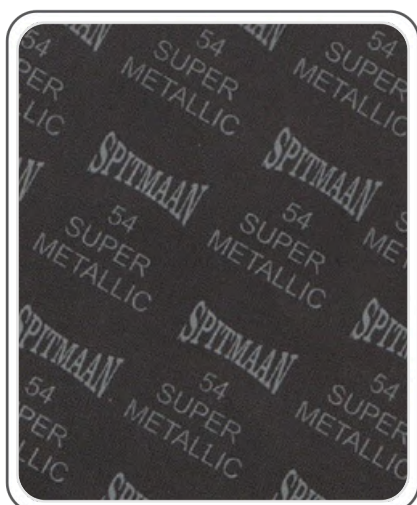
Description: A compressed Asbestos fibre jointing with wire gauze insertion supplied with graphite finish. Used for a wide range of industrial application and Engineering Service conditions which do not warrant the use of High grade material as SPITMAAN STYLE 54 SUPER.

Identity Colour: Graphited Black

Technical Data

Recommended Maximum Temperature : 480°C.
Recommended Maximum Pressure : 100 kg/cm².

Spitmaan Style 54 Super Metallic



Description: A compressed Asbestos fibre jointing embedded with a strong reinforcement of steel wire gauze, The super metallic sheet is superior in performance over other forms of jointing sheets where severe physical conditions of high pressure and temperature have to be resisted. It is effectively used under rapidly changing operating conditions of pressure, where vibrations are experienced and where the flange of gasket joint is narrow.

Services: Used in diesel exhaust manifold, cylinder head gaskets, internal combustion engines, air compressors.

Identity Colour : Graphited Black

Technical Data

Recommended Maximum Temperature : 600°C.
Recommended Maximum Pressure : 160 kg/cm².
Specification Compliance : IS 2712 - 1979 Grade W/1
IS 2712 - 1971 Grade A/S
BS 2815 - 1973 Grade A

Spitmaan Style 39



Description: Manufactured from quality of Asbestos Fibre and vulcanized with special rubber compound to meet with the exacting requirements of modern industry.

Services: Recommended for use against dry and wet steam, water, gases, alkalies, oil at normal temperatures, chemicals fuels, etc. and general engineering. Spitmaan Style 39 can also be provided with wire gauze insertion and graphited finish.

Identity Colour : Orange/Red/Gray or Graphited

Technical Data

Recommended Maximum Temperature	: 440°C.
Recommended Maximum Pressure	: 80 kg/cm ² .
Specification Compliance	IS 2712 - 1998
	IS 2712 - 1979 Grade O/2
	IS 2712 - 1979 Grade W/2
	IS 2712 - 1971 Grade B/S
	BS 2815 - 1973 Grade B

Spitmaan Style 59 Oil



Description: A compressed fibre jointing bonded with a sophisticated compound. This is specialised jointing to withstand the most exacting demands of oil and petrochemicals plants, solvents, refrigerators, oils, etc.

Services: Used in pipelines and apparatus of petrochemical fields, petroleum distillates, oil and petroleum industries. It is also recommended in industrial processes with high contents of aromatic substances, sulphurous compounds, chloric hydrocarbons, phenols, refrigerants, etc. The jointings give satisfactory services against steam also.

Identity Colour: Dark Gray

Technical Data

Recommended Maximum Temperature	: 550°C.
Recommended Maximum Pressure	: 150 kg/cm ²
Specification Compliance	IS 2712 - 1998 Grade
	IS 2712 - 1979 Grade O/1
	IS 2712 - 1971 Grade A/O
	British BS 1832 - 1972

Spitmaan Style 60 Acid



Description: This is a specialised asbestos fibre jointing sheet which is intimately bonded with an acid resisting compound to withstand the corrosive action of acids and chemicals.

Services: Recommended for use against hot concentrated organic, inorganic and mineral acids including hydrochloric, sulphuric (oleum) and nitric acids, under service conditions of temperature and pressure commonly encountered in chemical industries.

Identity Colour : Cream/Light Gray

Technical Data

Recommended Maximum Temperature	: 210°C.
Recommended Maximum Pressure	: 150 kg/cm ² .
Specification Compliance	: IS 2712 - 1998 Grade
	IS 2712 - 1979 Grade A/1

STYLE : AF 111

Compliance : Bs 7531 Grade y

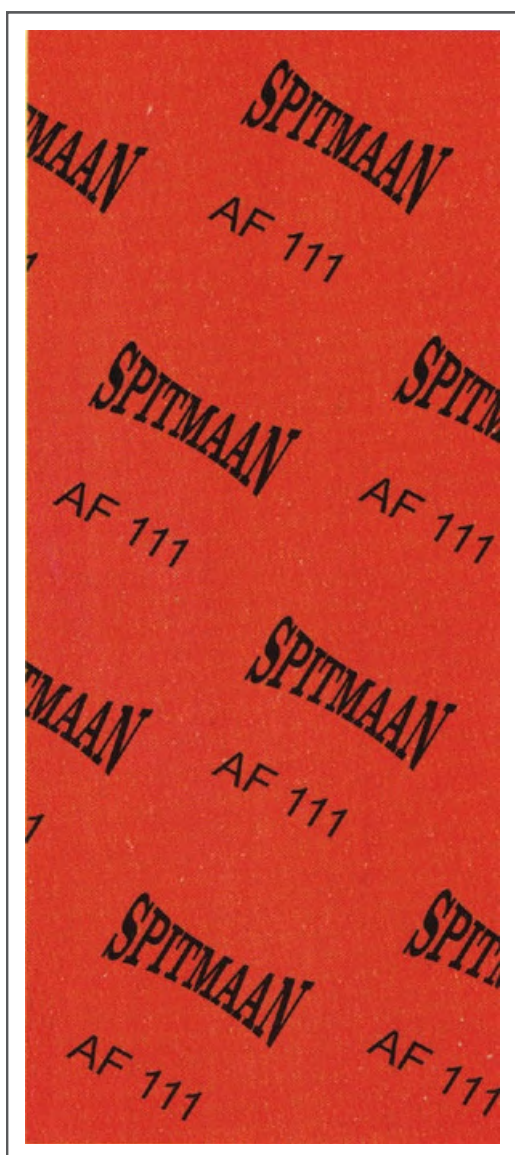
A cost effective product manufactured from ecofriendly natural cellulosic fibres (Veg. Fibre Group) bonded with suitable mix of fillers & elastomer.

Colour : Red & Green

Also available with galvanized metallic wiregauze reinforcement and antistick coating.

*Service Conditions :

General purpose gasket material suitable for use with oils, Solvents, Gases, Water, L.P. Steam and most dilute acids and alkalies (Low service conditions)



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	200	240
Max. Continuous Service Temp (°C)	120	140
Max. Operating Pressure (Bars)	25	30

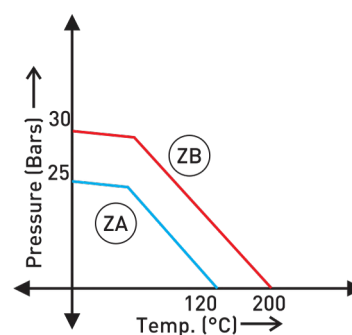
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥ 8.5 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress (175°C)	DIN 52913	≈ 22 Mpa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤ 1 ml / Min
Recovery	ASTM F 36	≥ 50%
Water Absorption at 100°C	BS 7531 : 1992	≤ 10%
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 10	< 10
Fuel B at Room Temp. ASTM F 146	≤ 12	≤ 12

* Indicative "P x T° Zones :



* Note : As the company's products are used for a multiplicity of purposes and as the company has no control over the method of their application or use, the company excludes all conditions or warranties, expressed or implied by statute or otherwise, as to their products and or their fitness for any particular purpose. Any technical Co-operation between the company and the customer is given for the customer's assistance only and without liability on the part of the company

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STYLE : AF 120

Compliance : Bs 7531 Grade y

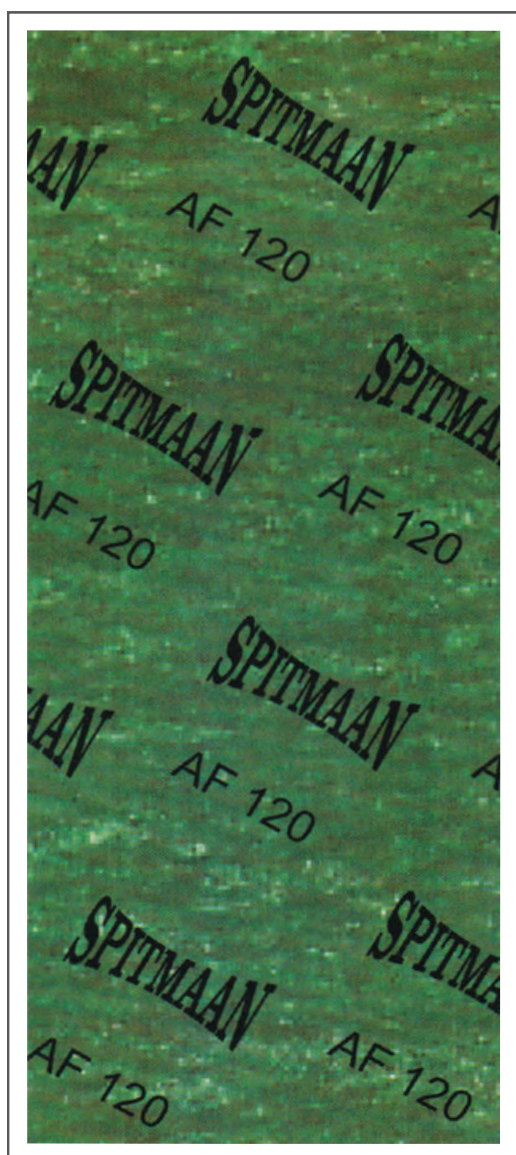
A Compressed synthetic Aramid fibre jointing sheet bonded with a suitable mix of fillers & elastomer to create a matrix of stability.

Colour : Green

Also available with galvanized metallic wiregauze reinforcement and antistick coating.

*Service Conditions :

Suitable for light industrial applications Media : Water, Gases, Medium Pressure Steam, Dilute Acids / Alkalies (Medium Service Conditions)



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	250	230
Max. Continuous Service Temp (°C)	180	210
Max. Operating Pressure (Bars)	50	60

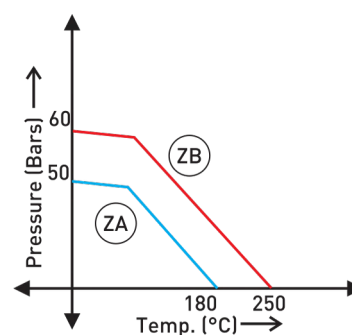
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥ 10 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 22 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤ 1 ml / Min
Recovery	ASTM F 36	≥ 50%
Water Absorption at 100°C	BS 7531 : 1992	≤ 7 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 10	< 10
Fuel B at Room Temp. ASTM F 146	≤ 10	≤ 10

* Indicative "P x T° Zones :



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STYLE : AF 139

Compliance : Bs 7531 Grade y

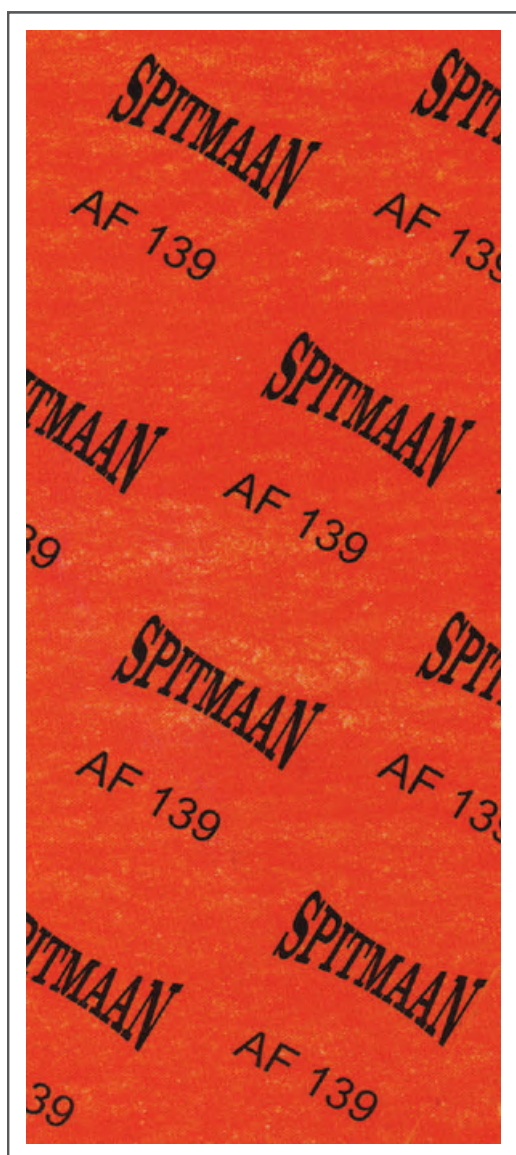
A high quality jointing sheet based on synthetic Aramid fibres bonded with mix of suitable fillers & elastomer.

Colour : Orange

Also available with galvanized metallic wiregauze reinforcement and antistick coating.

*Service Conditions :

Suitable for use in applications involving hydrocarbons such as oils and solvents, steam, gases, glycols and aqueous solutions. (Medium Service Conditions)



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	300	350
Max. Continuous Service Temp (°C)	200	240
Max. Operating Pressure (Bars)	80	95

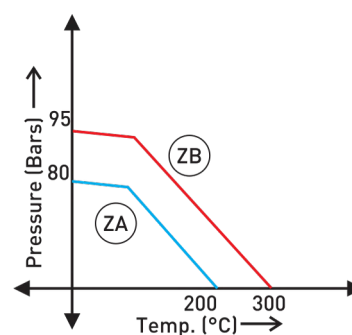
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥ 12 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 22 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤ 0.8 ml / Min
Recovery	ASTM F 36	≥ 50%
Water Absorption at 100°C	BS 7531 : 1992	≤ 7 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 10	< 10
Fuel B at Room Temp. ASTM F 146	≤ 10	≤ 10

* Indicative "P x T° Zones :



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STYLE : AF 154

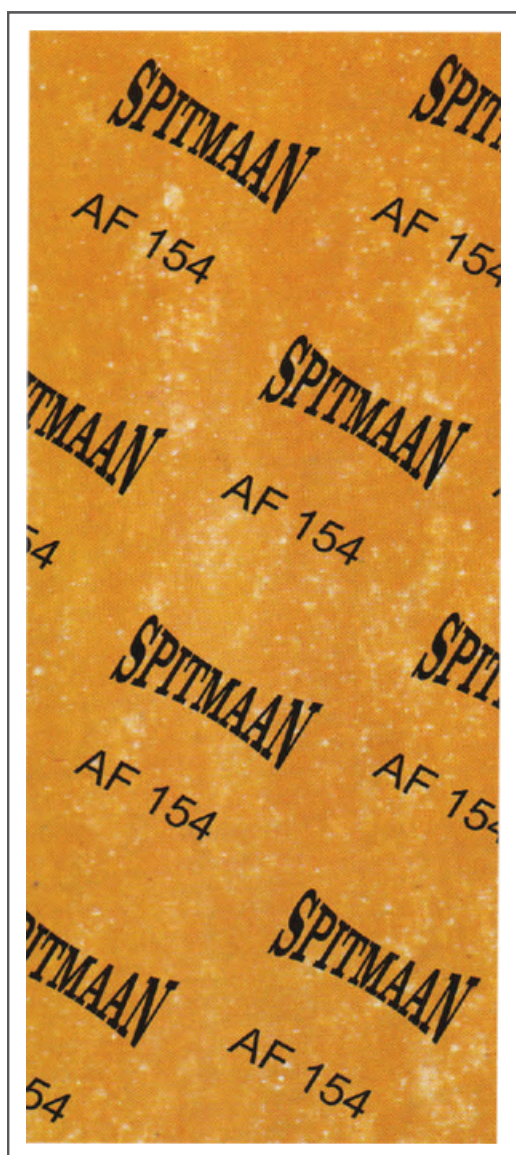
Compliance : Bs 7531 Grade X

A superior performance compressed jointing sheet incorporating a blend heat resisting Aramid fibres with a high quality nitrile elastomer binder.

Colour : Yellow

Also available with galvanized metallic wire gauze reinforcement and anti stick coating.

***Service Conditions :** Suitable for use with Oils, Solvents, Gases, Steam, Dilute Acids and alkalies.
(High Service Conditions)



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	350	400
Max. Continuous Service Temp (°C)	250	300
Max. Operating Pressure (Bars)	150	160

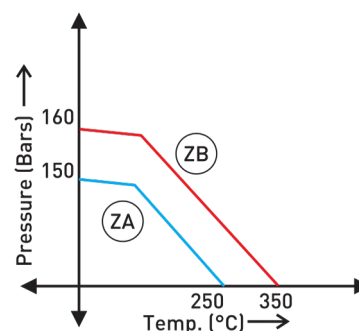
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥13.5 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 25 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤0.5 ml / Min
Recovery	ASTM F 36	≥ 60%
Water Absorption at 100°C	BS 7531 : 1992	≤ 5 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 5	< 5
Fuel B at Room Temp. ASTM F 146	≤ 10	≤ 10

* Indicative "P x T° Zones :



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STYLE : AF 159

Compliance : Bs 7531 Grade X

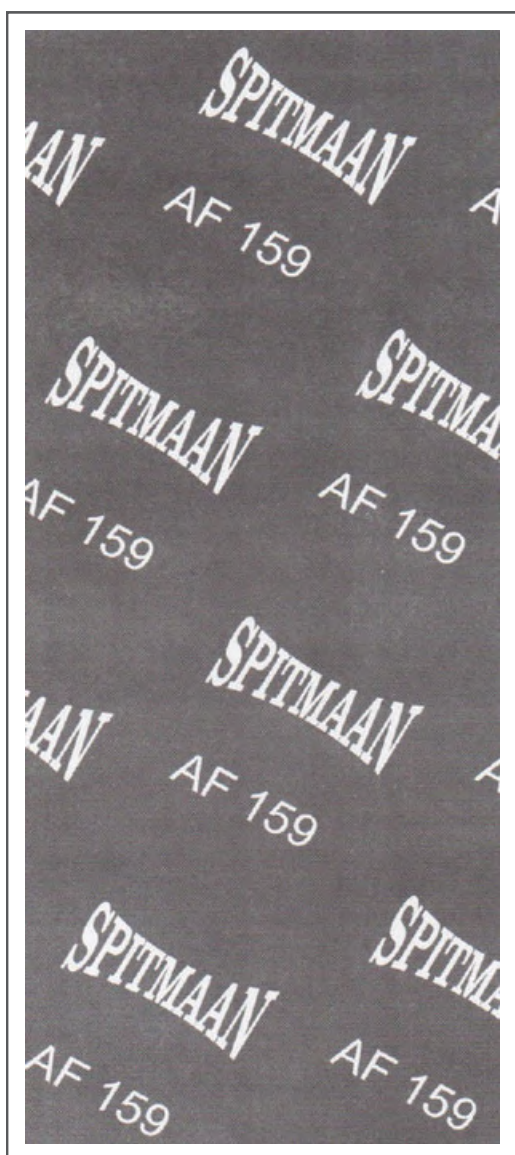
A Premium grade jointing sheet based on special synthetic Aramid fibres bonded with nitrile elastomer.

Colour : Grey

Also available with galvanized metallic wire gauze reinforcement and anti stick coating.

*Service Conditions : A universal grade suitable for many industrial sealing applications.

Media : Hot Oils, Fuels, Hydrocarbons and refrigerants. (High Service Conditions)



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	450	450
Max. Continuous Service Temp (°C)	250	300
Max. Operating Pressure (Bars)	150	160

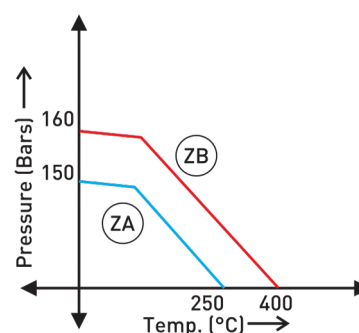
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥13.5 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 25 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤0.5 ml / Min
Recovery	ASTM F 36	≥ 60%
Water Absorption at 100°C	BS 7531 : 1992	≤ 5 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 5	< 5
Fuel B at Room Temp. ASTM F 146	≤ 5	≤ 5

* Indicative "P x T° Zones :



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STYLE : AF 160

Compliance : Bs 7531 Grade X

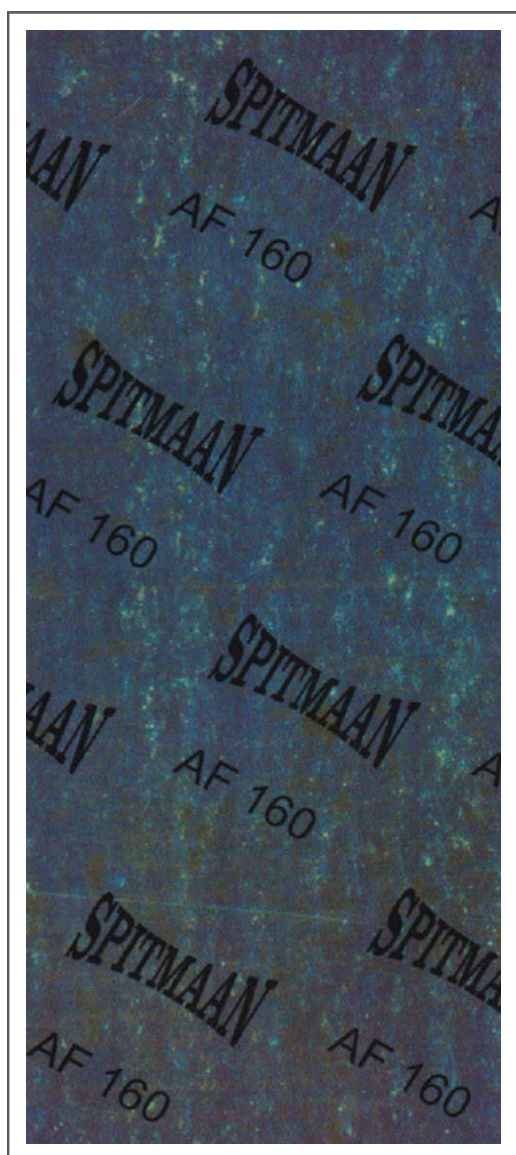
A top quality acid resistant compressed synthetic Aramid fibre jointing sheet bonded with special binders.

Colour : Blue

Available with antistick coating.

*Service Conditions :

Acid resistant grade. Recommended for use against hot, Concentrated Organic / inorganic / mineral acids.



	Non. Metallic	Metallic
Max. Short Term Service Temp (°C)	250	Not Suggested
Max. Continuous Service Temp (°C)	210	in Metallic
Max. Operating Pressure (Bars)	120	Version

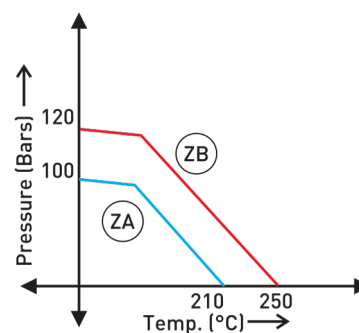
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥13.5 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 22 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤0.5 ml / Min
Recovery	ASTM F 36	≥ 60%
Water Absorption at 100°C	BS 7531 : 1992	≤ 5 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 30%

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 5	< 5
Fuel B at Room Temp. ASTM F 146	≤ 5	≤ 5

* Indicative "P x T° Zones :



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SPITMAAN

STYLE : AF 170

Compliance : Bs 7531 Grade x

The unique blend of special Heat resistant Fibres, Graphite and high quality elastomers, which demonstrate excellent Thermal and Mechanical Properties.

Colour : Black

Also available with galvanized metallic wire gauze reinforcement and anti stick coating.

***Service Conditions :** Due to the universal character of the material, " SPITMAAN" AF-170 has excellent resistance to oils, solvents, fuel, refrigerants, salt solutions, gas, water & steam.



	Non. Metallic	Metalic
Max. Short Term Service Temp (°C)	600	650
Max. Continuous Service Temp (°C)	350	400
Max. Operating Pressure (Bars)	150	170

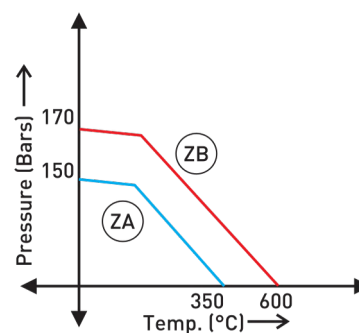
Typical Physical Properties :

Density		1.80 g/cm ³
Tensile Strength	ASTM F 152	≥11 MPa
Compressibility	ASTM F 36	> 12%
Residual Stress	BS 7531 : 1992	≈ 20 MPa
Gas Permeability (Sealability against Nitrogen)	BS 7531 : 1992	≤0.8 ml / Min
Recovery	ASTM F 36	≥ 50 %
Water Absorption at 100°C	BS 7531 : 1992	≤ 5 % (Thickness Increase)
Ignition Loss	DIN 52911	≤ 28 %

Fluid Resistance

	Thickness Increase %	Mass Increase %
ASTM Oil No.3 BS 7531 : 1992 (at 150°C)	< 8	< 8
Fuel B at Room Temp. ASTM F 146	≤ 8	≤ 8

* Indicative "P x T° Zones :



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Spitmaan Spiral Wound Gaskets

Construction : Special Spring like Metal strips are wound with an Asbestos Filler by a special process to assure a leak proof seal. The sealing is done by the Asbestos Filler and the metal strip provides the spring. This combination of metal and soft asbestos Filler piles compresses to its predetermined thickness under bolting pressure and thereby preventing leakage within the limit of its specified pressure and temperature ranges. With the addition of Centering devices, adapt "SPITMAAN" Spiral Wound Gaskets to use on many types of flanges and closures.

Materials : Standard materials are type 304 Stainless steel with white Canadian (Chrysotile) Asbestos Filler.

Materials available are:

Metals	Fillers
Type 304 Stainless	Compressed Asbestos Jointing Strips
Type 316 Stainless	P.T.F.E. Sintered Strip
Aluminium	Asbestos paper
Copper	White Chrysotile Asbestos
Monel	Blue African Crocidolite
Steel, Plain	Grafseal
Steel, Zinc Coated	

Gasket Thickness Available:

Normal	Actual
1/8" (3.2 mm)	.125" ± .005" (3.2 mm)
3/16" (4.8mm)	.175" ± .005" (4.5 mm)

Hints Of Installation & Maintenance:

When installing a Spiral Wound Gasket, check the dimensions of the Gaskets for use between pipe and pressure vessel flanges. The procedure is as follows:-

Measure ID of flange contact face.

Measure Gasket ID. If Gasket ID is not 1/8" larger than flange ID, do not use it unless it can be installed perfectly centered.

A Spiral Wound Gasket does not have the same feel as other Metallic or Non-Metallic Gaskets during the bolting-up. It's different-because it gives a little bit under each bolt as it is tightened. It is therefore important to tighten the bolts in small steps in proper sequence as shown hereunder. Final tightening must be uniform with each bolt pulling same load. This will guarantee a trouble free joint. If not uniform, the joint may leak-particularly after it has been in hot service. Tighten the bolts after 24 hours and again a week later.

How to Order:

When ordering "SPITMAAN" Spiral Wound Gaskets, give the following information:

- ▶ Quantity ▶ Gasket shape ▶ Inside and outside Dimension of Gaskets ▶ Flange width
- ▶ Gasket Thickness ▶ Operating Pressure ▶ Operating Temperature

SIZE INFORMATION FOR SPIRAL WOUND METALLIC GASKETS

For Raised Face, Plain Face and Lapped Joints

To US B 16.5 Specifications

.175" (4.5 mm) Thick Gaskets

1/8" (3.0 mm) Thick Centering Gauge Ring

Nominal Pipe Size	150, 300, 400, 600, 900 and 1500 lb.		150 lb.	300 lb.	400 lb.	600 lb.	900 lb.	1500 lb.	2500 lb.		2500 lb.
	Gasket		Ring	Ring	Ring	Ring	Ring	Ring	Gasket		Ring
	I.D.	O.D.	O.D.	O.D.	O.D.	O.D.	O.D.	O.D.	I.D.	O.D.	O.D.
1/4	1/2	7/8	1 3/4	1 3/4	1 3/4	1 3/4	—	—	—	—	—
3/4	3/4	1 1/2	1 1/2	2 1/8	2 1/8	2 1/8	2 1/2	2 1/2	—	—	2 3/4
1	1	1 1/2	2 1/4	2 5/8	2 5/8	2 5/8	2 3/4	2 3/4	1 1/4	1 9/16	3
1 1/4	1 1/4	1 1/2	2 5/8	2 7/8	2 7/8	2 7/8	3 1/8	3 1/8	1 1/4	1 7/8	3 5/8
1 1/2	1 1/2	2 1/4	3 3/8	3 3/4	3 3/4	3 3/4	3 1/2	3 1/2	1 1/8	2 3/8	4 1/8
2	2 1/8	3 3/8	4 1/8	4 3/8	4 3/8	4 3/8	5 1/8	5 1/8	2 5/16	3 3/8	5 3/8
2 1/2	2 1/2	3 1/2	4 3/8	5 1/8	5 1/8	5 1/8	6 1/2	6 1/2	2 3/4	3 3/8	6 3/8
3	3 1/4	4 1/4	5 1/8	5 5/8	5 5/8	5 5/8	6 3/8	6 3/8	3 5/8	4 3/4	7 3/4
3 1/2	4 1/8	5 1/4	6 3/8	6 1/2	6 3/8	6 3/8	—	—	—	—	—
4	4 1/2	5 1/2	6 7/8	7 1/8	7 1/8	7 1/8	8 1/8	8 1/4	4 5/8	5 7/8	9 1/4
4 1/2	5 1/16	6 1/2	7 3/4	7 3/4	7 3/4	—	—	—	—	—	—
5	5 13/16	7	7 3/4	8 1/2	8 3/8	9 1/2	9 3/4	10	5 5/8	7 1/4	11
6	6 1/8	8 1/4	8 3/4	9 1/8	9 3/4	10 1/2	11 1/8	11 1/8	6 3/4	8 1/4	12 1/2
8	8 1/8	10 3/8	11	12 1/8	12 1/8	12 5/8	14 1/8	13 7/8	8 1/2	10 3/8	15 1/4
10	10 13/16	12 1/2	13 3/8	14 1/4	14 1/8	15 1/4	17 1/8	17 1/8	10 5/8	12 1/2	18 3/4
12	12 1/8	14 3/4	16 1/8	16 5/8	16 1/2	18	19 3/8	20 1/2	12 3/4	14 3/4	21 5/8
14	14 1/4	16 1/2	17 3/4	19 1/8	19 1/8	19 3/8	20 1/2	22 1/4	—	—	—
16	16 1/4	18 1/4	20 1/4	21 1/8	21 1/8	22 1/4	22 1/4	25 3/4	—	—	—
18	18 1/2	20 1/4	21 1/8	23 1/2	23 1/2	24 1/8	25 1/8	27 3/4	—	—	—
20	20 1/2	22 1/4	23 1/8	25 1/4	25 1/2	26 1/8	27 1/2	29 3/4	—	—	—
24	24 1/4	27	28 1/4	30 1/2	30 1/4	31 1/8	33	35 1/2	—	—	—

**For Raised Face, Slip-on and Welding Neck Joints
To API Standard 601 Specifications
.175" (4.5 mm) Thick Gaskets
1/8" (3.0 mm) Thick Centering Ring**

Nominal Pipe Size	Gasket O.D.	150 lb.		300 lb.		400 lb.		600 lb.		900 lb.		1500 lb.		2500 lb.	
		Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.	Gasket I.D.	Ring O.D.
1	1 ⁷ / ₈	1 ¹ / ₄	2 ⁵ / ₈	1 ¹ / ₄	2 ⁷ / ₈	1 ¹ / ₄	2 ⁷ / ₈	1 ¹ / ₄	2 ⁷ / ₈	1 ¹ / ₄	3 ¹ / ₈	1 ¹ / ₄	3 ¹ / ₈	1 ¹ / ₄	3 ³ / ₈
1 ¹ / ₄	2 ³ / ₈	1 ²³ / ₃₂	3	1 ²³ / ₃₂	3 ¹ / ₄	1 ²³ / ₃₂	3 ¹ / ₄	1 ²³ / ₃₂	3 ¹ / ₄	1 ³ / ₁₆	3 ¹ / ₂	1 ³ / ₁₆	3 ¹ / ₂	1 ⁹ / ₁₆	4 ¹ / ₈
1 ¹ / ₂	2 ³ / ₄	1 ³¹ / ₃₂	3 ³ / ₈	1 ³¹ / ₃₂	3 ³ / ₄	1 ³¹ / ₃₂	3 ³ / ₄	1 ³¹ / ₃₂	3 ³ / ₄	1 ⁷ / ₈	3 ⁷ / ₈	1 ⁷ / ₈	3 ⁷ / ₈	1 ⁷ / ₈	4 ⁵ / ₈
2	3 ³ / ₈	2 ³ / ₄	4 ¹ / ₈	2 ³ / ₄	4 ³ / ₈	2 ³ / ₄	4 ³ / ₈	2 ³ / ₄	4 ³ / ₈	2 ⁵ / ₁₆	5 ⁵ / ₈	2 ⁵ / ₁₆	5 ⁵ / ₈	2 ⁵ / ₁₆	5 ⁵ / ₈
2 ¹ / ₂	3 ³ / ₈	3 ³ / ₈	4 ⁷ / ₈	3 ³ / ₈	5 ⁸ / ₈	3 ³ / ₈	5 ⁸ / ₈	3 ³ / ₈	5 ⁸ / ₈	2 ³ / ₄	6 ¹ / ₂	2 ³ / ₄	6 ¹ / ₂	2 ³ / ₄	6 ⁸ / ₈
3	4 ³ / ₄	4	5 ⁸ / ₈	4	5 ⁸ / ₈	4	5 ⁸ / ₈	4	5 ⁸ / ₈	3 ³ / ₄	6 ⁸ / ₈	3 ³ / ₄	6 ⁸ / ₈	3 ³ / ₄	7 ⁴ / ₄
4	5 ⁸ / ₈	5	6 ⁸ / ₈	5	7 ⁸ / ₈	4 ³ / ₄	7 ⁸ / ₈	4 ³ / ₄	7 ⁸ / ₈	4 ³ / ₄	8 ⁸ / ₈	4 ³ / ₄	8 ⁸ / ₈	4 ³ / ₄	9 ⁴ / ₄
5	7	5 ¹³ / ₁₆	7 ³ / ₄	5 ¹³ / ₁₆	8 ² / ₂	5 ¹³ / ₁₆	8 ⁸ / ₈	5 ¹³ / ₁₆	9 ² / ₂	—	—	—	—	—	—
6	8 ¹ / ₄	7 ¹⁶ / ₁₆	8 ³ / ₄	7 ¹⁶ / ₁₆	9 ⁸ / ₈	6 ⁸ / ₈	9 ³ / ₄	6 ⁸ / ₈	10 ² / ₂	6 ⁸ / ₈	11 ³ / ₈	6 ³ / ₄	11 ⁸ / ₈	6 ³ / ₄	12 ² / ₂
8	10 ³ / ₈	9 ¹⁶ / ₁₆	11	9 ¹⁶ / ₁₆	12 ⁸ / ₈	8 ⁸ / ₈	12 ⁸ / ₈	8 ⁸ / ₈	12 ⁸ / ₈	8 ⁸ / ₈	14 ⁸ / ₈	8 ⁸ / ₈	13 ⁸ / ₈	8 ⁸ / ₈	15 ⁴ / ₄
10	12 ² / ₂	11 ⁵ / ₁₆	13 ⁸ / ₈	11 ⁵ / ₁₆	14 ⁴ / ₄	10 ¹³ / ₁₆	14 ⁸ / ₈	10 ¹³ / ₁₆	15 ⁴ / ₄	10 ¹³ / ₁₆	17 ⁸ / ₈	10 ¹³ / ₁₆	17 ⁸ / ₈	10 ⁵ / ₈	18 ³ / ₄
12	14 ³ / ₄	13 ⁸ / ₈	16 ¹ / ₈	13 ⁸ / ₈	16 ⁸ / ₈	12 ⁷ / ₈	16 ¹ / ₂	12 ⁷ / ₈	18	12 ⁷ / ₈	19 ⁵ / ₈	12 ³ / ₄	20 ¹ / ₂	12 ³ / ₄	21 ⁵ / ₈
14	16	14 ⁸ / ₈	17 ³ / ₄	14 ⁸ / ₈	19 ⁸ / ₈	14 ¹ / ₄	19	14 ¹ / ₄	19 ³ / ₈	14 ¹ / ₄	20 ¹ / ₂	14 ¹ / ₄	22 ³ / ₄	—	—
16	18 ¹ / ₄	16 ⁵ / ₈	20 ¹ / ₄	16 ⁵ / ₈	21 ¹ / ₄	16 ⁴ / ₄	21 ⁸ / ₈	16 ⁴ / ₄	22 ¹ / ₄	16 ⁴ / ₄	22 ⁵ / ₈	16 ⁴ / ₄	25 ¹ / ₄	—	—
18	20 ⁴ / ₄	18 ¹¹ / ₁₆	21 ⁵ / ₈	18 ¹¹ / ₁₆	23 ¹ / ₂	18 ² / ₂	23 ⁸ / ₈	18 ² / ₂	24 ¹ / ₈	18 ⁴ / ₄	25 ¹ / ₈	18 ⁴ / ₄	27 ³ / ₄	—	—
20	22 ³ / ₄	20 ¹¹ / ₁₆	23 ⁸ / ₈	20 ¹¹ / ₁₆	25 ³ / ₄	20 ² / ₂	25 ² / ₂	20 ² / ₂	26 ⁸ / ₈	20 ¹ / ₄	27 ¹ / ₂	20 ⁴ / ₄	29 ³ / ₄	—	—
24	27	24 ³ / ₄	28 ¹ / ₄	24 ³ / ₄	30 ¹ / ₂	24 ⁴ / ₄	30 ⁴ / ₄	24 ⁴ / ₄	31 ⁸ / ₈	24 ⁴ / ₄	33	24 ⁴ / ₄	35 ¹ / ₂	—	—

"PRODUCT WARRANTY"

"CHAMPION" products are warranted free from defects in workmanship and in raw materials of our own manufacture. These products are not guaranteed as to performance under any specific service condition nor for any specific period of time. Our liability for breach of any Warranty, express or implied, is limited, at our sole option, to refund of the invoice value of our products, or to the replacement thereof F.O.B. our plant or other shipping point, full freight allowed to prior destination.

**For Raised Face Flange
To BS Specification 3381 : 1973
.175" (4.8 mm) Thick Gaskets
1/8" (3.0 mm) Thick Centering Ring**

Nominal Pipe Size	Sealing element diameters			Centering ring outside diameter					
	Inside class 150	inside classes 300-1500	Outside classes 150-500	Class rating					
				150	300	400	600	900	1500
in	mm	mm	mm	mm	mm	mm	mm	mm	mm
1/2	19.1	19.1	31.8	47.6	54.0	54.0	54.0	63.5	63.5
3/4	27.0	25.4	39.7	57.2	66.7	66.7	66.7	69.9	69.9
1	33.3	31.8	47.6	66.7	73.0	73.0	73.0	79.4	79.4
1 1/4	46.0	44.5	60.3	76.2	82.6	82.6	82.6	88.9	88.9
1 1/2	54.0	50.8	69.9	85.7	95.3	95.3	95.3	98.4	98.4
2	69.9	66.7	85.7	104.8	111.1	111.1	111.1	142.9	142.9
2 1/2	82.6	79.4	98.4	123.8	130.2	130.2	130.2	165.1	165.1
3	101.6	95.3	120.7	136.5	149.2	149.2	149.2	168.3	174.6
4	127.0	120.7	149.2	174.6	181.0	177.8	193.7	206.4	209.6
5	154.0	147.6	177.8	196.9	215.9	212.7	241.3	247.7	254.0
6	181.0	174.6	209.6	222.3	250.8	247.7	266.7	288.9	282.6
8	231.8	225.4	263.5	279.4	308.0	304.8	320.7	358.8	352.4
10	287.3	281.0	317.5	339.7	362.0	358.8	400.1	435.0	435.0
12	339.7	333.4	374.7	409.6	422.3	419.1	457.2	498.5	520.7
14	371.5	365.1	406.4	450.9	485.8	482.6	492.1	520.7	577.9
16	422.3	415.9	463.6	514.4	539.8	536.6	565.2	574.7	641.4
18	476.3	469.9	527.1	549.3	596.9	593.7	612.8	638.2	704.9
20	527.1	520.7	577.9	606.4	654.1	647.7	682.6	698.5	755.7
24	631.8	625.5	685.8	717.6	774.7	768.4	790.6	838.2	901.7



NON ASBESTOS PACKING

STYLE YE-116 FIBRE GLASS ROPE



Charminar Fibreglass rope is a durable twisted material for blowoff pipes and general gasketing applications to 1000°F (540°C)

STYLE YE-117 CERAMIC ROPE



Charminar Ceramic Rope and packing offer gasket and sealing materials with excellent insulating valve and high temperature durability in boiler, furnace, oven and molding applications at temperatures to 2300°F (1260°C) They resist most corrosive agents except phosphoric and hydrofluoric acid; and hot concentrated alkalis.

STYLE YE-303 FIBREGLASS CLOTH



The new line of Charminar Fibreglass product offers many unique characteristics and advantages including flexibility, dimensional stability and high tensile strength. They are resistant to many acids and alkalis, and are unaffected by most bleaches and solvents in industrial and marine applications in temperature up to 1000°F (540°C).

SERVICES : For gasketing wrapping, insulating and protecting in a broad variety of industrial and marine applications to 1000°F (540°C)

STYLE YE-404/202 FIBREGLASS TUBING / TAPE



The new line of Charminar Fibreglass product offers many unique characteristics and advantages including flexibility, dimensional stability and high tensile strength. They are resistant to many acids and alkalis, and are unaffected by most bleaches and solvents in industrial and marine applications in temperature up to 1000°F (540°C).

SERVICES : For gasketing wrapping, insulating and protecting in a broad variety of industrial and marine applications to 1000°F (540°C)



ASBESTOS PRODUCTS



LIST OF ITEMS MANUFACTURING

Sr. No. DESCRIPTION OF ITEMS

01. Asbestos Yarns Non-Metallic and Metallic.
02. Asbestos Cloths, Non Metallic and Metallic in different Thickness to meet varied demands.
03. Asbestos white woven tapes in different widths and thickness.
04. Asbestos white dry plaited packing.
05. Asbestos plaited packings, lubricated and graphited.
06. Asbestos valve twist with pure graphite lubricants.
07. Asbestos plaited packings dry with surface coating of graphite.
08. Self lubricating Asbestos plaited packings, Non Metallic / Non-Graphited / Mica lubricated.
09. Self lubricating and graphited Asbestos plaited packings, white metal wire reinforced.
10. Self lubricating and graphited Asbestos plaited packings, brass wire reinforced.
11. Teflon impregnated Asbestos Plaited packings.
12. 100% Pure P.T.F.E packings.
13. Belka packings.
14. Asbestos Fibre filled rope laggings.
15. Asbestos Rubber proofed cloth/Tape, Metallic / Non Metallaic.
16. Industrial Brake Linings reinforced with brass wire in Roll form.

OTHER ITEMS WHICH CAN BE OFFERED AGAINST SPECIFIC REQUIRMENTS

01. Asbestos plaited packings reinforced with inconel wire.
02. Asbestos plaited packings reinforced with S.S. wire.
03. Chemically treated Asbestos packing.
04. Serpent packing (Steam packing)
05. Metaflex packings (Aluminum foil packings).
06. Asbestos Door Gaskets.
07. Asbestos full suit (Coat, Pant, Hand Gloves & Hood)
08. Asbestos Hand Gloves.
09. Asbestos Moulded items (Packing Sleeves, Cut rings, Laminated Rings, Asbestos Tubings, Beltings Teflon, Impregnated Asbestos Moulded Rings.
10. Asbestos Fibre.



INDUSTRIAL BRAKE LINERS

CHARMINAR Bonded Asbestos industrial brakes is a flexible, solid woven, asbestos based friction materials, made from yarn spun around brass-wire, which contributes considerably to its strength. CHARMINAR bonded asbestos industrial brake linings have a medium/high coefficient of friction combined with moderate temperature and wear resistance. It is available in roll form and segments, cones and special shapes can easily be cut from it. Being a flexible material it is possible to form it to radius when fitting it facilitate this operation, it may be heated uniformly to a moderate temperature to soften the impregnate. It is designed solely for use under dry conditions. CHARMINAR Bonded Asbestos Industrial brake linings are supplied with both surfaces unground.

APPLICATION :

CHARMINAR Industrial brakes is suitable for a great variety of brake & clutch components in the general industrial field such as Industrial band and drum brake linings, Plate and cone clutch linings (on e.g., Cranes, Lifts, excavators winches, concrete mixers, drop hammers, mine winding appliances, underground haulages, tippers, oil well draw works, road rollers, sugar mill centrifuges) Certain heavy road transport vehicles and tractors.

DESIGN VALUE : The coefficient of friction for design should be based upon the graph, the severity of application, and maximum anticipated operating temperature being taken into account. Normal engineering practice should be followed in applying an appropriate safety factor to torque requirements of brake/clutch units.

SIZE RANGE : (Nominol)

Supplied in rolls of approximately 15 meters (50ft.) in thickness from 4.8mm (3/16") to 19.1mm (3/4") and in widths from 25.4mm (1") to 463.6mm (18 1/4")

RECOMMENDED MATING SURFACE :

- (a) Good quality close grain or alloy cast iron.
- (b) If steel, then forged or cold rolled with a Brinell of 200 or over, cast steel is not recommended for use as mating surface.

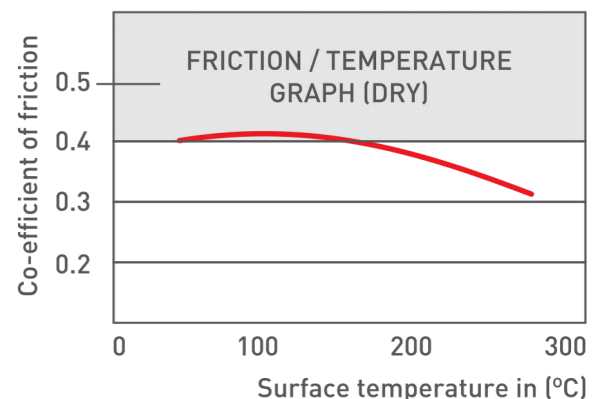
RECOMMENDED OPERATING TEMPERATURES :

- Maximum Temperatures - 260°C (500°F)
- Maximum Continuous Temperatures - 125°C (257°F)

NOTE :

The continuous temperature quoted is for constant slip conditions. For intermittent applications, bulk temperatures of 160°C are acceptable for long periods.

TECHNICAL DATA : AVERAGE	
(Data based on international standard test methods)	
Tensile Strength	246kg/cm ² (3,500 lbs /sq.In)
Compressive Strength (for 10% compression)	633kg/cm ² (9,000 lbs /sq.In)
Rivet holding capacity	900kg/cm ² (12,800 lbs /sq.In)
Specific gravity	1.75gm/cc 0.06 lbs /cu.In



PTFE Universal Soft Packing Kohinoor Style 11 & 12

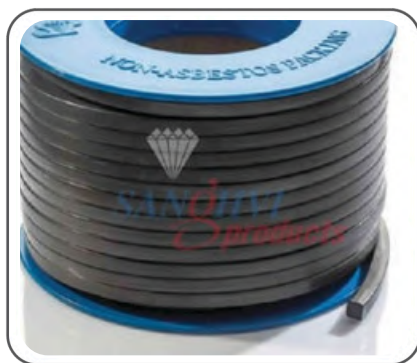


Construction : Extruded soft packing made from PTFE and high temperature lubricant. Available in square and round sections.

Application : Suitable for pumps, valves and many other static applications. Due to the chemical inertness of PTFE, it can be used with all substances. Offers excellent sealing when used in place of gasket or jointing in flanges in almost all type of industries.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-100 to + 260	0-14	20	4

PTFE Graphite Soft Packing Kohinoor Style 13



Construction : An extremely low friction extruded soft and dense packing made from a special grade of PTFE, graphite and high temperature lubricant.

Application : This self-lubricating packing has excellent thermal and chemical resistance. It reduces friction to shafts and resists gas permeation. It is used in pumps, valves, stirring equipment and static applications for use with acids, dyes, solvents, adhesives and abrasive media. It is recommended to use rings of Style 61 or Style 71 on both ends.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-100 to +300	0-14	100	12

Valve Seal Kohinoor Style 14



Construction : Valve Seal is provided with double construction of 100% PTFE core with spiral wrapping of PTFE tape.

Application : The core fills all voids and conforms to uneven spindles and flanges while the spiral wrapping of PTFE tape prevents extrusion at both ends of the spindle. It is widely recommended for use on valves in various industries for obtaining practically Zero Leakage. Can also be used in place of gasket in flanged joint.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-100 to + 260	0-14	200	--

Pure Expanded Graphite Packing Kohinoor Style 41



Construction : Diagonally braided from pure expanded flexible graphite yarn.

Application : Very flexible and supple packing, excellent alternative to pre-formed graphite-rings. The benefits of this packing are low friction and excellent thermal conductivity. It can be used with steam, water, oils, alkalies, acids, solvents, paints, varnishes on pumps and valves in high temperature and high pressure environments prevailing in power plants, boiler houses, refineries, steel mills, petrochemicals industries, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to + 650	0-14	300	25

Pure Carbon Packing Kohinoor Style 42



Construction : High quality carbon fibre impregnated with graphite and an inert lubricant.

Application : This packing is extremely flexible and has excellent heat dissipating properties and very low coefficient of friction. It can be used for sealing boiler feed pumps, valves, mixers, etc., in pulp & paper, chemical & pharmaceutical industries, power plants, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to +600	0-14	200	20

Lubricated PTFE Packing With Dispersion Kohinoor Style 51



Construction : High tensile yarn made from a special grade PTFE, impregnated with PTFE dispersion and lubricated with inert high temperature lubricant.

Application : This packing has particular characteristics such as low coefficient of friction and excellent tightness, making it suitable for rotary, reciprocating and static applications. It is widely used in all type of industries where purity and safety are vital criteria, such as food processing, pharmaceutical, chemical industries, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-200 to +260	0-14	100	8

PTFE Packing With Dispersion Kohinoor Style 52



Construction : High tensile yarn made of special grade PTFE and impregnated with PTFE dispersion.

Application : This packing is mainly recommended where lubricant is not to be used due to danger of combustion. It is also used in pumps having low shaft speed and equipments in handling hazardous & corrosive chemicals. PTFE being chemically inert, can be used with almost all chemicals.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-200 to +260	0-14	100	5

PTFE Graphite Packing Kohinoor Style 61



Construction : PTFE blended with graphite and lubricated with an inert high temperature lubricant.

Application : This packing is suitable for high-speed rotary applications. It can be used in contact with most media including the most aggressive. Also suitable for oxygen, paints, lacquers, varnishes. This packing is used in chemicals, petrochemicals, paper & pulp industries, textile industries, power plants, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to + 300	0-14	300	20

PTFE Graphite Packing Kohinoor Style 62



Construction : A special grade of PTFE bonded with quality graphite and lubricated with an inert high temperature lubricant.

Application : This packing is ideally well suited for high peripheral speeds and temperature. It can be used in pumps, valves, mixers, reactors, agitators, etc. This self-lubricating packing can be safely used in almost all chemical application including the most aggressive. Widely used in refineries, petrochemicals, fertilizers, textile industries, power plants, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to +300	0-14	300	25

Pure Aramid Packing Kohinoor Style 71

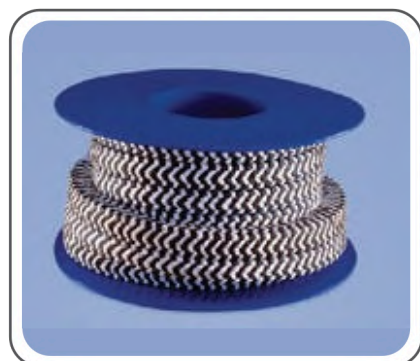


Construction : High strength organic aramid (aromatic polyamide) synthetic yarn impregnated with PTFE and lubricated with a special high temperature lubricant.

Application : High strength and its abrasion resistance of the yarn makes it ideal for use with abrasive sand, slurry, gritty media, sludge and sewerage handling equipments. It is used in pulp and paper, chemical, petrochemicals, pharmaceuticals, sugar, food industries, power plants, etc. Used as anti extrusion rings with other packing.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to +260	2-12	250	12

PTFE & PTFE Graphite Combination Packing Kohinoor Style 81



Construction : Alternately braided packing made from a high grade PTFE yarn and specially developed graphite bonded PTFE yarn.

Application : The alternate braiding of this packing allows graphite bonded PTFE yarn to come in direct contact with the rotating object, making it ideal for use in high-speed applications. It is widely used in chemical and petrochemical industries for oils, concentrated acids, corrosive gases, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-200 to +260	0-14	200	15

PTFE & Aramid Combination Packing Kohinoor Style 82



Construction : Combination packing made of a high-grade PTFE yarn with aramid corners.

Application : A non toxic and dimensionally stable packing suitable for corrosive chemicals and abrasive media. This packing is also used as an anti extrusion rings as it can withstand high pressure in rotary as well as reciprocating applications. Widely used in food and pharmaceutical industries, dairies, refineries, fertilizer plants, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-200 to +260	2-12	180	12

PTFE Graphite & Aramid Combination Pack Kohinoor Style 83



Construction : A high quality combination packing of Graphite bonded PTFE yarn with aramid corners.

Application : This packing has good sliding properties and thermal conductivity, making it an excellent packing option for high pressure pumps with sliding velocity. Aramid yarn corners prevent gap extrusion in high pressure & high temperature applications. It is widely used in applications involving abrasive media.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-240 to +260	0-12	200	20

Hollow Core / Solid Core Packing KOHINOOR HC / SC



Construction : A packing with a center of hollow silicon core or solid silicon cord braided around by yarn of style 51, 61, 71, 82 & 83.

Application : A specially developed packing for use on rotating equipment with excessive shaft deviation. It also reduces shaft / sleeve wear. The center of silicon core / cord gives it strong restoration properties, and exerts back-pressure, resulting in total sealing. This packing is suitable for pumps, reactors, mixers, agitators, etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	Varies according to the packing style			

PTFE/ PTFE Graphite Putty KOHINOOR Putty



Construction : A Malleable paste made from special grade PTFE or special grade PTFE bonded with high purity Graphite, and a balanced compound of various oils, greases and binders.

Application : This self-lubricating putty has excellent thermal and chemical resistance, and reduces friction on shafts. It is widely used on scored shafts and valve stems, in pumps, valves, reactors, agitators, etc. It is recommended to use anti extrusion rings of Kohinoor Style 51 / Style 62 / Style 71.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
PTFE Putty	-100 to +260	0-14	100	5
PTFE Graphite Putty	-100 to +300	0-14	100	12

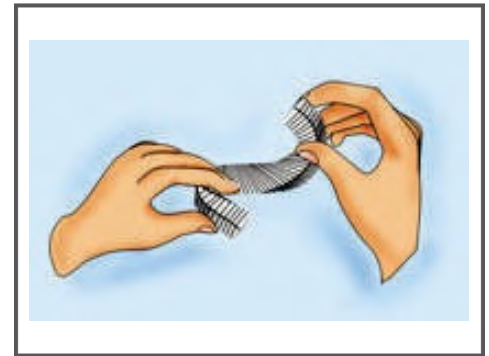
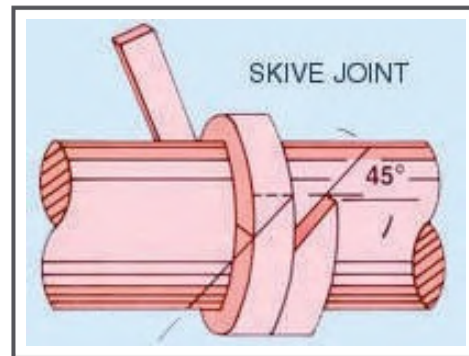
PTFE 100% Packing KOHINOOR Comm.



Construction : This is a specially developed packing made of 100% pure PTFE unsintered tape.

Application : It is a cost-effective replacement of PTFE impregnated asbestos packings. PTFE 100% square packing is a self-lubricating, chemically inert, non-toxic, and a non-hazardous material. It is very flexible packing and provides more efficient sealing with very low friction characteristics. This packing can be used against corrosive chemicals, solvents, oils and petroleum by products and oxygen service widely used for water handling equipments, liquid oxygen pumps, valves etc.

Service Parameters:	Temp	pH	Pressure	Velocity
	°C	Range	Kg/cm ²	Mtrs/Sec
	-100 to +260	0-14	50	5



FOR INSTALLATION OF PTFE PACKINGS

When rings are to be formed from continuous length of packing, spirally wrap the packing around a rod of diameter equivalent to the valve spindle. Cut the required number of rings to fill the packing space, with sharp knife to obtain good butt joints.

Remove all packing carefully

Clean properly all the surface that will be in constant contact with the packing and if possible, apply lubricant. Check gland and neck bushes and spindle or shaft surface for wear and repair if necessary.

Place the first ring around the spindle or shaft by opening to an "S" configuration to ensure that the ring is not damaged. First partially enter both ends of the first ring simultaneously into the stuffing box and then insert the remaining part of the ring. After that firmly push it to the bottom of the stuffing box. Assist with split sleeve.

Similarly insert other rings and ensure that the joints are at 90°. N.B. Rings must be fitted individually and not as a set.

FOR PUMP APPLICATIONS

When all the rings have been fitted to fill the stuffing box, fit the gland follower and tighten the gland nuts to level the gland spigot. Tighten to finger tightness only. Now turn nut one or two thread. Loose it back and again tighten to finger tightness. (When storage is anticipated the gland should be left slack) DO NOT OVERTIGHT.

Run pump at operating speed for 10 to 15 minutes. If there is no leakage, stop pump and loosen gland further. Repeat until leakage occurs. The controlled leakage essential for lubrication purpose can be obtained by running the pump and evenly tightening the gland nut in increments of two threads until approximately one drop leaks every few seconds. Approximately 15 minutes should be left between successive adjustments.

FOR VALVES

When all the rings have been fitted to fill the stuffing box, fit the gland follower and tighten the gland nuts to level the gland spigot.

Tighten the gland nuts evenly till spindle is properly gripped. Now loose the gland nuts so that the spindle will just turn. The system pressure can now be introduced.

After few hours of service, it is advisable to check the gland adjustment for any looseness that might have occurred due to initial setting.

PTFE Extruded Rods



Diameter : 5mm to 100mm (Standards)
 Length : 900mm to 1000mm (Standard)
 Made to Order : Specific Length & Diameter available as per customer's requirements.
 Material : Virgin PTFE
 Specification No : ASTM - D 1710

PTFE Extruded Tubes



Outer Diameter : 19mm to 100mm (Standard)
 Inner Diameter : 12mm to 90mm (Standard)
 Length : 1000mm (Standard)
 Made to Order : Specific Length, O.D & I.D. available as per customer's requirements. (Minimum 3mm Wall Thickness)
 Material : Virgin PTFE
 Specification No : ASTM - D 3295

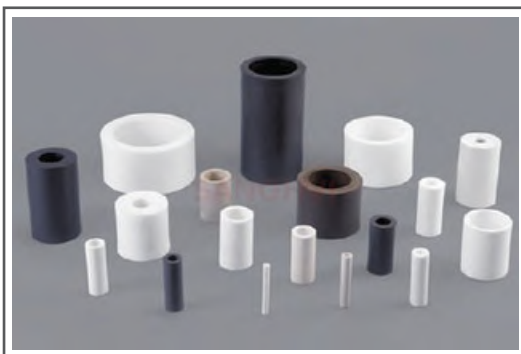
PTFE Moulded Rods



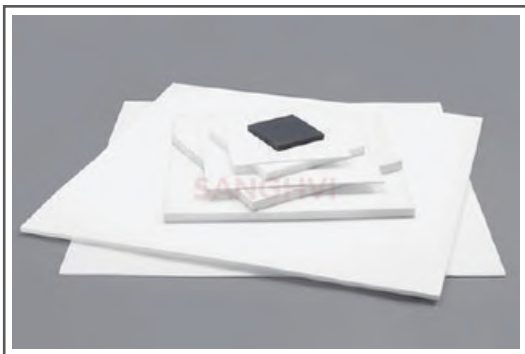
Diameter : 19mm to 300mm (Standard)
 Length : 300mm (Standard)
 Made to Order : Specific Length, Diameter available as per customer's requirements.
 Material : Virgin PTFE and Filled PTFE
 Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2
 Specification No : ASTM - D 1710

Outer Diameter : 19mm to 250mm (Standard)
 Inner Diameter : 12.5mm to 200mm (Standard)
 Length : 100mm (Standard)
 Made to Order : Specific Length, O.D & I.D. available as per customer's requirements. (Minimum 3mm Wall Thickness)
 Material : Virgin PTFE & Filled PTFE
 Filler : Glass / Carbon / Graphite / Bronze / Bronze + Mos2
 Specification No : ASTM - D 1710

PTFE Moulded Bushes



PTFE Moulded Sheets



Standard Size : 300 x 300mm, 450 x 450mm
600 x 600mm, 1000 x 1000mm
1200 x 1200mm, 1500 x 1500mm

Thickness : 3mm to 25mm

Made to Order : Specific Length, Width & Thickness
Available as per customer's requirements.

Material : Virgin PTFE & Filled PTFE

Filler : Glass / Carbon / Graphic / Bronze

Specification No : ASTM - D 3293

Standard Width : 300mm, 450mm, 600mm, 1000mm,
1200mm, 1500mm, 2000mm

Thickness : 0.1mm to 3.00mm (standard)

Length : Available in Roll Form in any Length

Made to Order : Specific Length, Width & Thickness
available as per customer's requirement.

Material : Virgin PTFE & Filled PTFE

Filler : Glass / Carbon / Graphic / Bronze

Specification No : ASTM - D 3308

PTFE Skived Sheets



PTFE Machined Components



PTFE machined components such as valves seat rings, roof packing, seal cover, plug valves sleeve, wedge rings, 'O' rings, piston rings, washers, bearings, balls, bushings, insulators, pipe joints, guides, breaks, piston rings, rider rings, hydraulic earth mover seals etc., and all types of components for non-lubricates compressors or any PTFE components as per customer's sample, specification and drawing.



Thermosil / Alpha

INDUSTRIAL INSULATION MILLBOARD (ASBESTOS)



PRODUCT CHARACTERISTICS

- ◆ is made from a blend of high quality canadian chrysotile asbestos fibres and other incombustible inorganic ingredients
- ◆ is compactly bound
- ◆ is strongly with a smooth surface
- ◆ is available in low thicknesses
- ◆ has rigidity as well as flexibility
- ◆ has low thermal conductivity
- ◆ has high temperature resistivity
- ◆ can be easily cut, punched or wet molded
- ◆ gives clean edges while cutting gaskets

PRODUCT CHARACTERISTICS

Grade TS-101 / NE -1001

- ◆ general purpose grades for high temperature insulation (both grades have similar properties)

Grade TS-301

- ◆ Superior grade for specialised applications e.g. automobile gaskets, sheet glass roller conveyors, padding in the steel industry etc.

Grade A1-111

- ◆ Single lamination millboard made on a new Fourdiner machine.

Grade A1-333

- ◆ Superior grade of single lamination millboard for automobile gaskets available in rolls or sheets.

APPLICATION

- ◆ a versatile material used for widely divergent applications

For insulation :

- ◆ in Electric Arc, Induction and other Furnaces
- ◆ in Boilers and ovens
- ◆ in Kerosene Wick Stoves
- ◆ in Electrical Appliances like Domestic Presses
- ◆ in Steam and Hot Air Pipelines and Ductings

For Automobile Gaskets :

- ◆ in Cylinder Head and Exhaust Manifold Gaskets

For Padding:

- ◆ in Ball Mills
- ◆ in Expansion Joints
- ◆ in Steel Strip industry

For Construction of Roller Conveyors:

- ◆ in Sheet Glass Industry
- ◆ in Annealing Furnaces

For Fire Safety :

- ◆ in Fire-Proof Safes and Cupboards
- ◆ in Fire-check Doors

For Environmental Safety :

- ◆ as Covers for Ladles, Pots, ingots, etc. to protect workmen
- ◆ as Base Mat for placing Hot Metals

For Protection of Plant and Equipment :

- ◆ as Gaskets while pouring Molten Metals in Steel & Aluminum Industries
- ◆ as Lining below the Mould in the Casting Industry

Grades	TS-101/NE-1001	TS-301	AI - 111	AI - 333 & PAPER
Thickness availability (mm)	1.5-25.0	0.75-12.5	1.0-2.0	0.18-2.0
Nominal Density (gms/cc)	1.15	1.10	1.08	1.08
Tensile Strength (min)				
-Along grain (Kg/Cm ²)	28	45	36	45
-Across grain (Kg/Cm ²)	12	24	18	28
Loss on Ignition at 800°C (max)	15%	18%	15%	18%
Thermal Conductivity @ 150°C mean temp. (W/m°C)	0.116	0.110	0.116	0.110
Moisture Content (Max)	2%	2%	2%	2%
Electric Strength (Proof) in air @ 90°C	1.5kV/mm	1.5kV/mm	1.5kV/mm	2.0kV/mm
Temperature Resistance	500°C or higher if suitably supported			



Thermosil

INDUSTRIAL INSULATION MILLBOARD (ASBESTOS FREE)



TECHNICAL SPECIFICATION

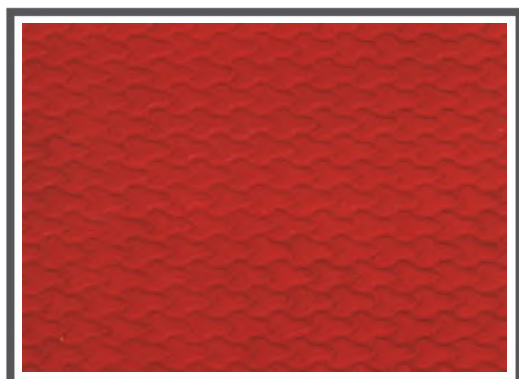
S.No.	PARTICULARS	UNITS	THERMOSIL TEST RESULTS
1	Density (Nominal)	gms/cc	1.15
2	Tensile Strength a. Along Grain (Min.) b. Across Grain (Min.)	kg/cm ² kg/cm ²	20 10
3	Loss on ignition (Max.)	%	15
4	Moisture content (Max.)	%	2
5	Thermal Conductivity	W/moc	0.116
6	Electrical Strength	kv/mm	1.5
7	Temperature Resistance	500oC or higher if suitably supported	
8	Flame Test	Does not get burnt when held in flame	
9	Thickness Availability	1.0 - 25mm	
	Specification Compliance	There are no seperate specification for asbestos free material. However the properties of the asbestos free material match closely with those of the asbestos material.	

TOLERANCE IN PACKING

	Tolerance in Thickness	Variation within Sheets (Max) %	Wt. Sheet with Tolerance $\pm 7\%$ (kg)	Sheets per Crate (Nos.)
1.5mm	7	10	1.6	60
3mm	8	10	3.3	30
5mm	8	10	5.5	17
6mm	8	10	6.6	15
10mm	6.5	10	11.0	9
12.5mm	6.5	10	14	7

PACKING DETAILS

- Sheet (1 mtr. X 1 mtr.) will be packed in polythene and then in wooden crates.
- Each Crate will be of 100Kgs to 105Kgs. Nett wt.



INSULATING MATS

FOR ELECTRICAL PURPOSE

Confirming to IS : 15652-2006
(Superceding IS:5424-1969)

APPLICATIONS : The “DOZZ “ ISI Marked Insulating Mats for Electrical Purpose has a wide application in various Substation, Power Plants etc. The Mats are used for floor covering below control panels to provide the safety of workman due to possible leakage of current.

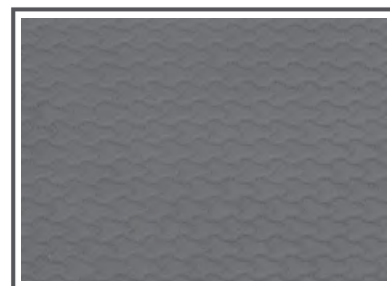
COMPOSITION : The Mats are made up of blend of Synthetic Polymers.

UNIQUE FEATURE : The “DOZZ” becomes the first brand in Indian Market to obtain the ISI Mark on Insulating Mats for Electrical Purposes.

TECHNICAL SPECIFICATIONS

SIZE	1 Mtr. *2 Mtr / 1Mtr. *10 Mtr
COLOUR	Black / Red / Blue (Other colour as agreed between supplier and purchaser)
FINISH	One Side Plain / Other Side Patterened
TENSILE STRENGTH	For Temp -10 to 55°C -15 N/mm ² (Min.)
ELONGATION AT BREAK	For Temp -10 to 55°C -250% (Min.)
INSULATION RESISTANCE WITH WATER	10,00,000 MΩ (Min.)
LEAKAGE CURRENT	10 μA (Max.)
FLAME RETARDENCE	The Mat is retarded to fire.
LOW TEMPERATURE RESISTANCE	No tear, break or crack is observed in Mats underforce of 100 N for 30hrs, At -40±3°C
AGING TEST	(For temp. -10 to 55°C)
1. TENSILE STRENGTH	Not less then 75% without Aging.
2. ELONGATION AT BREAK	Not less then 75% without Aging.
EFFECT OF NAOH, TRANSFORMER OIL, HCL	(For temp. -10 to 55°C)
1. TENSILE STRENGTH	Not less then 80% without Aging.
2. ELONGATION AT BREAK	Not less then 80% without Aging.

S.No.	Class of Mats	Thickness	Dielectric Strength	AC RMS Voltage
1.	A	2.00 mm	30 KV	3.3 KV
2.	B	2.50 mm	45 KV	11 KV
3.	C	3.00 mm	65 KV	33 KV



B.I.S + CPRI Approved

VIDYUT SAFE[®]

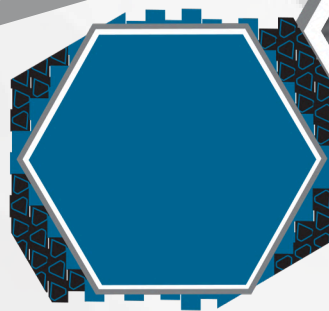
INSULATING MATS FOR ELECTRICAL PURPOSE

**Confirming to IS : 15652-2006
(Superceding IS : 5424-1969)**

APPLICATIONS : The “VIDYUT SAFE” ISI Marked Insulating Mats for Electrical Purpose has a wide application in various Substation, Power Plants etc. The Mats are used for floor covering below control panels to provide the safety of workman due to possible leakage of current.

COMPOSITION : The Mats are made up of blend of Synthetic Polymers.

TECHNICAL SPECIFICATIONS



SIZE	1 Mtr. * 2 Mtr / 1 Mtr. * 10 Mtr
COLOUR	Black / Red / Blue (Other colour as agreed between supplier and purchaser)
FINISH	One Side Plain / Other Side Patterened
TENSILE STRENGTH	For Temp -10 to 55°C -15 N/mm ² (Min.)
ELONGATION AT BREAK	For Temp -10 to 55°C -250% (Min.)
INSULATION RESISTANCE WITH WATER	10,00,000 MΩ (Min.)
LEAKAGE CURRENT	10 µA (Max.)
FLAME RETARDENCE	The Mat is retarded to fire.
LOW TEMPERATURE RESISTANCE	No tear, break or crack is observed in Mats underforce of 100 N for 30hrs, At -40±3°C
AGING TEST	(For temp. -10 to 55°C)
1. TENSILE STRENGTH 2. ELONGATION AT BREAK	Not less then 75% without Aging. Not less then 75% without Aging.
EFFECT OF NAOH, TRANSFORMER OIL, HCL	(For temp. -10 to 55°C)
1. TENSILE STRENGTH 2. ELONGATION AT BREAK	Not less then 80% without Aging. Not less then 80% without Aging.

S.No.	Class of Mats	Thickness	Dielectric Strength	AC RMS Voltage
1.	A	2.00 mm	30 KV	3.3 KV
2.	B	2.50 mm	45 KV	11 KV
3.	C	3.00 mm	65 KV	33 KV

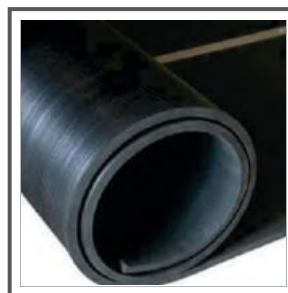
Authorised Distributors

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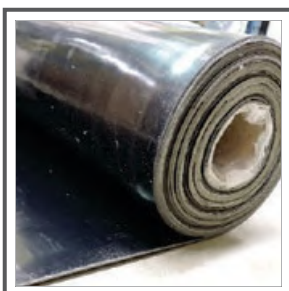
RUBBER SHEETS



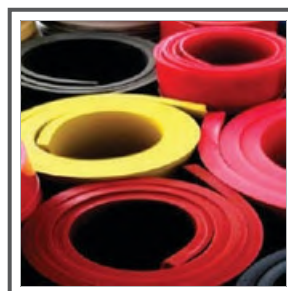
**RUBBER SHEETS
FOR ENGINEERING
APPLICATION**



**VITON
RUBBER SHEETS**



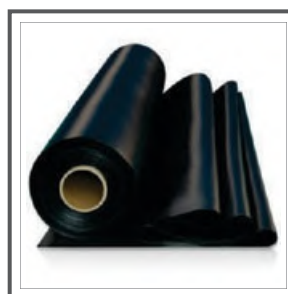
**BUTYL
RUBBER SHEETS**



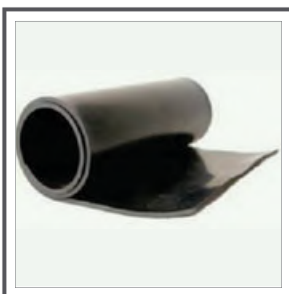
**HYPALON
RUBBER SHEET**



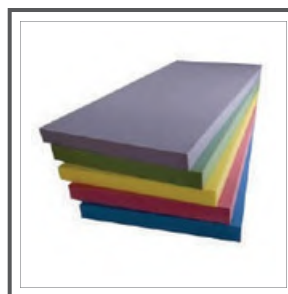
**NITRILE
RUBBER SHEETS**



EPDM SHEET



**NEOPRENE
(CHLOROPRENE)
RUBBER SHEETS**



**POLYURETHANE
SHEET**



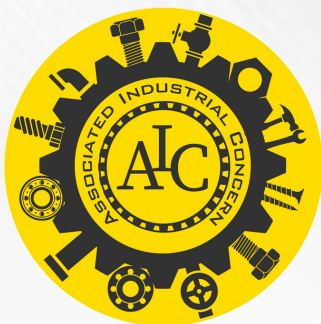
**SILICON
RUBBER SHEETS**



**CHEQUERED
RUBBER MATTING**

IMPORTANT

The Data given in the brochure has been complied to the best of our knowledge and is given without any obligation. In view of the multiplicity of operating and installation conditions as well as process and applications technique, the information provided can serve only as a general guideline. In view of continuous product development the size, specification, colour, design shall be changed without any prior notice.



We Always Deliver More Than Expected



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